2016 ANNUAL OPERATING REPORT

Site:

GEIGY CHEMICAL CORPORATION CERCLA SITE ABERDEEN, MOORE COUNTY, NORTH CAROLINA COMMITTEE CORRESPONDENCE

Submitted To:

MR. JON BORNHOLM USEPA REGION IV 61 FORSYTH STREET, SW MAIL CODE: 9T25 ATLANTA, GA 30303-8960

Prepared By:

ENVIROTRAC LTD. 7343 WEST FRIENDLY AVENUE, SUITE J GREENSBORO, NC 27410 (336) 763-6025

FEBRUARY 2017

A Full Service Environmental Consulting and Contracting Firm







February 13, 2017

Mr. Jon Bornholm Remedial Project Manager USEPA Region IV 61 Forsyth Street, SW Mail Code: 9T25 Atlanta, Georgia 30303-8960

RE: 2016 Annual Operating Report

Groundwater Remediation Permit No. WQ0009949
Geigy Chemical Corporation CERCLA Site

Aberdeen, North Carolina

Dear Mr. Bornholm:

On behalf of Olin Corporation and Syngenta Crop Protection (the Companies), the purpose of this letter is to transmit the analytical results for the 2016 annual sampling event for the Geigy Chemical Corporation CERCLA Site groundwater extraction, treatment, and discharge system. Information provided in this report includes:

- Monitoring requirements summary table (Attachment 1);
- Site extraction and treatment system layout (Attachment 2);
- Monitoring event analytical summary tables (Attachment 3);
- BHC isomer trend graphs for site indicator wells and figures (Attachment 4);
- Completed copies of NCDEQ GW-59 Forms and laboratory reports with chain-ofcustody documents (Attachment 5); and
- Monthly windshield survey for new construction (Attachment 6).

The system performed as designed during 2016 and experienced minimal down-time. Over 8.3 million gallons of water was extracted and treated between December 30, 2015 and December 21, 2016, at an effective treatment efficiency of nearly 100 percent. The system is routinely shutdown for brief periods to conduct operation and maintenance activities such as replacing carbon drums, fittings, and bag filters. Well pumps, flow meters, and electrical relays were replaced without shutting down the system. Five 55-gallon drums of granular activated carbon were transported to Siemens for recycling/re-activation. Pumping of the Upper Black Creek Aquifer extraction wells (PW-1D, PW-2D, and PW-3D) continues to fulfill the closed-loop requirement of the Site Groundwater Remediation Permit. Due to the inconsistency in quality



control and results attributed to laboratory error, a different laboratory will be utilized during the 2017 sampling events.

BHC isomer concentration trend graphs are provided in Attachment 4. The graphs include data from the initial sampling event through the October 2016 sampling event to facilitate review of the groundwater quality monitoring data. Alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC concentrations are provided on the graphs as these constituents typically represent the highest concentrations and detection frequencies among the pesticides included in the sample analyses. In reviewing the graphs, please note that monitoring wells MW-16S, MW-17S, and MW-18S are screened in the surficial aquifer to monitor the infiltration gallery. Monitoring wells MW-16D and MW-17D are screened in the Upper Black Creek aquifer and are located hydraulically upgradient of the site. The graphs generally indicate steady or decreasing trends in BHC isomer concentrations from historical levels.

Information provided in Attachment 5 of this submittal is intended to fulfill the annual reporting requirements described in Section IV, Paragraph 4 of the Site Groundwater Remediation Permit. Accordingly, one copy of this report has been sent to the North Carolina Department of Environmental Quality (NCDEQ) Division of Water Resources (DWR).

Monthly windshield surveys of properties within the BHC plume have been summarized on the Table included in Attachment 6. New construction was observed on Campbell Street between High Street and Bethesda Avenue during the October 2016 site reconnaissance and is documented on the form.

Should you have questions regarding the report, please contact Chris Hay at (336) 763-6025.

Sincerely,

ENVIROTRAC LTD.

Daie Hay

Gail G. Hay, P.E.

Senior Engineer

Christopher W. Hay, E.I.

Principal

Enclosure

Cc: Doug Rumford, NCDEQ Superfund Section, w/enc.

Michael Rogers, NCDEQ DWR, w/enc. Garland Hilliard, Olin Corporation, w/enc.

George Crouse, Syngenta, w/enc.

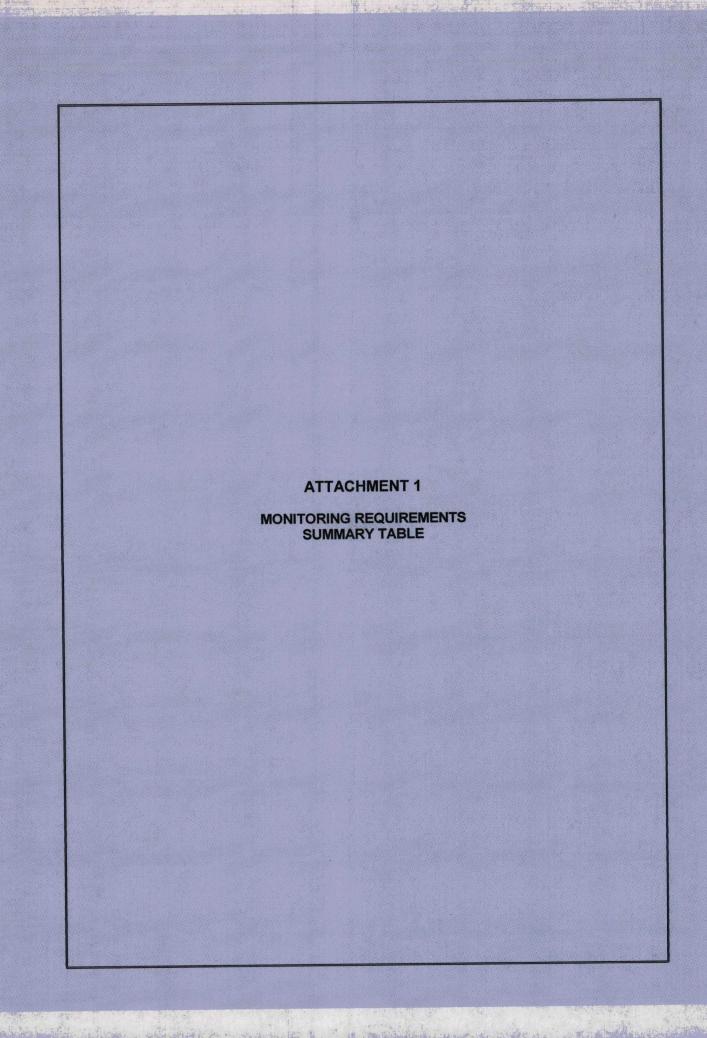
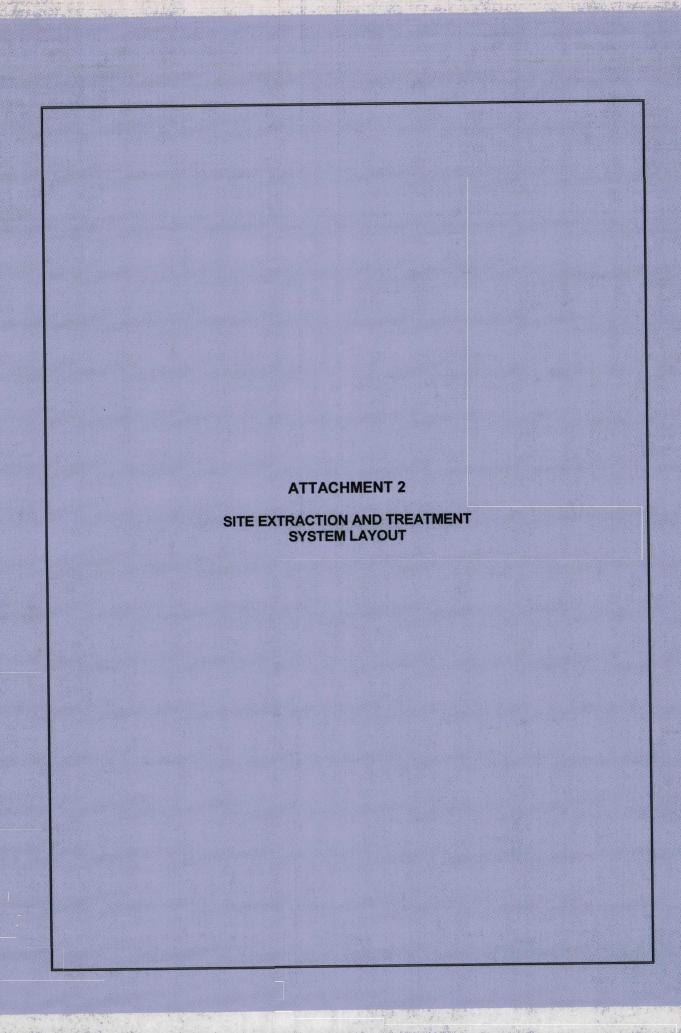
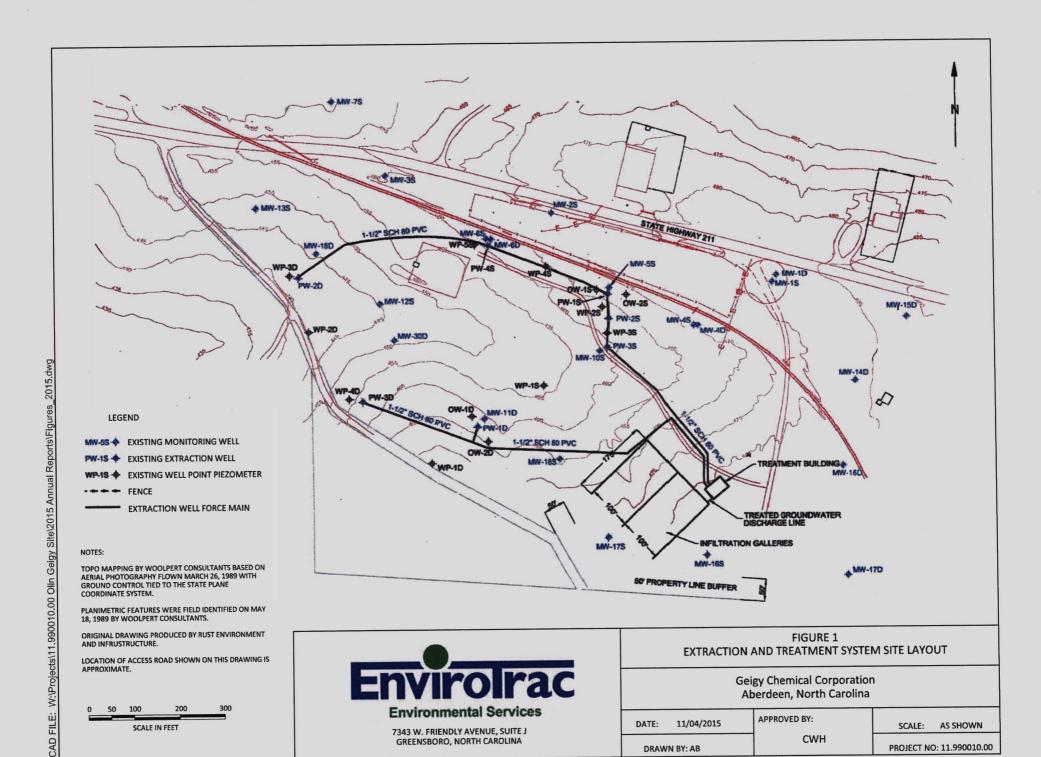


TABLE 1: GROUNDWATER EXTRACTION AND TREATMENT SYSTEM MONITORING SCHEDULE

SAMPLE	PARAME	TERS	FREQ	UENCY
LOCATION	TCL PESTICIDES	TCE	QUARTERLY	ANNUALLY
MW-4S	V			✓
MW-5S	✓			✓ .
MW-6S	✓			· · ·
MW-10S	✓	✓ _		✓
MW-16S	✓	✓		√
MW-17S	✓	✓		√
MW-18S	√	. 🗸		√
MW-11D	✓	✓		✓
MW-16D		✓		✓
MW-17D		✓		✓
MW-18D	✓	✓		√
MW-20D	✓			✓
MW-22D	✓			√
MW-23D	✓	_		✓
MW-26D	✓			√
MW-30D	✓	√		
MW-22L	✓			✓
MW-25L	✓			·
MW-27L	✓		·	✓ .
MW-31L	✓			✓
MW-32L	✓			√
MW-36L	✓			<u> </u>
MW-37L	✓			<u> </u>
MW-38L	✓			✓
MW-39L	√			✓
MW-40L	✓			✓
PZ-2	✓			✓
PZ-3	√			✓
PZ-5	V			✓
Influent	√	✓	/	
Effluent	√	✓	/	
Carbon Train A	√	✓	/	
Carbon Train B	√	✓	✓	





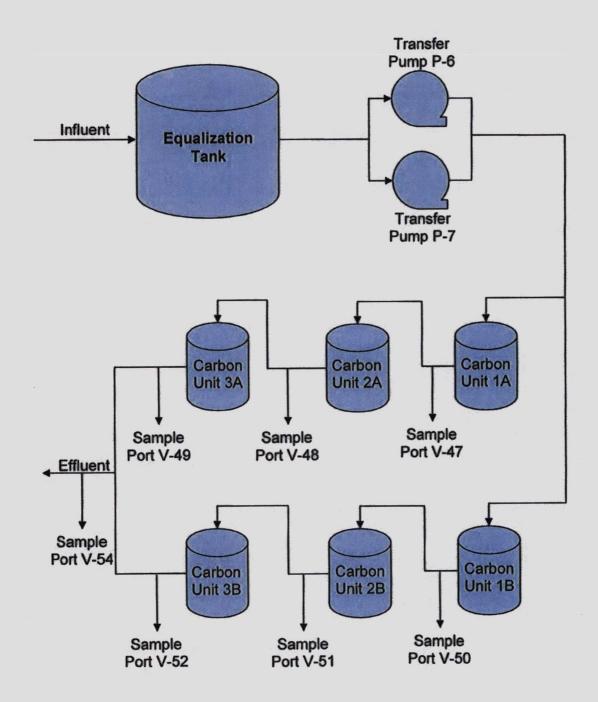
GREENSBORO, NORTH CAROLINA

CWH

DRAWN BY: AB

PROJECT NO: 11.990010.00

Figure 2
Treatment System Process Layout
Geigy Chemical Corporation Site



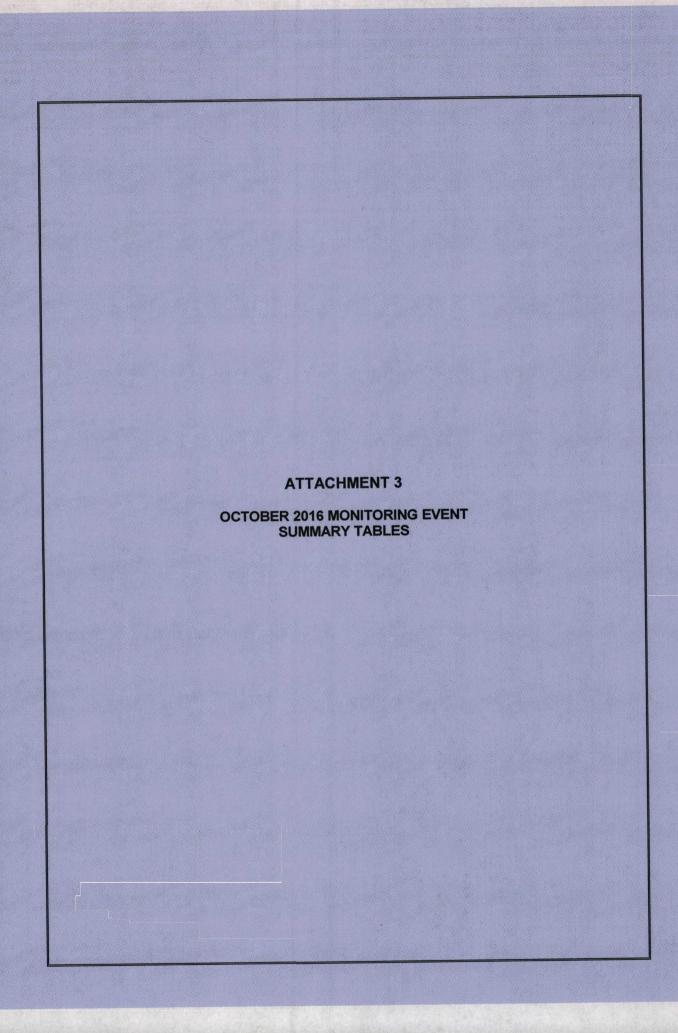


TABLE 2: UPPER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER	ANALYTICAL D	ATA						PERFORMANCE
SAMPLE LOCATION	MW-11D	MW-18D	MW-20D	MW-22D	MW-23D	MW-26D	MW-30D	STANDARD
DATE COLLECTED	10/04/16	10/05/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	STANDARD
Aldrin	0.058 U	0.049 U_	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	0.05
alpha-BHC	0.022 J	0.050	0.049 U	0.016 J p	0.040 J	0.014 J	0.12	0.05
beta-BHC	1.1	0.58	0.033 J	0.16	0.044 J	0.049 U	4.5	0.05
delta-BHC	0.072	0.11	0.049 U	0.067	0.049 U	0.049 U	0.50	0.05
gamma-BHC (Lindane)	0.019 J	0.062	0.049 U	0.019 J	0.030 J	0.030 J	0.11	0.2
alpha-Chlordane	0.027 J	0.049 U	0.049 U	0.050 U	0.049 U	0.019 J p	0.11	NE
gamma-Chlordane	0.019 J	0.049 U	0.049 U	0.0098 J	0.049 U	0.014 J_	0.066	NE
Dieldrin	0.089 p	0.10	0.049 U	0.050 U	0.049 U	0.049 U	0.50	0.1
4,4'-DDD	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U_	0.049 U	NE
4,4'-DDE	0.058 U	0.011 J p	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
4,4'-DDT	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Endosulfan I	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Endosulfan II	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Endosulfan sulfate	0.017 J	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Endrin	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE _
Endrin aldehyde	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Endrin ketone	0.091	0.076	0.049 U	0.050 U	0.049 U	0.049 U	0.39	0.1
Heptachlor	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Heptachlor epoxide	0.030 J	0.013 J p	0.049 U	0.050 U	0.049 U	0.015 J	0.092	NE
Methoxychlor	0.058 U	0.049 U	0.049 U	0.050 U	0.049 U	0.049 U	0.049 U	NE
Toxaphene	2.1 J	3.2 J	4.9 U	5.0 U	4.9 U	4.9 U	8.1	1
Trichloroethene	1.0 U	1.1	NA	NA	NA	NA	1.3	**

NOTES

Results are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit

NE = No standard established

NA = Not analyzed for this compound

NS = Not sampled

U = Indicates the analyte was not detected

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

^{* =} LCS and LCSD exceeds the control limits

^{** =} Trichloroethene is not a COC for the Geigy site.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

TABLE 3: LOWER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER	ANALYTICAL D	ĀTA												
SAMPLE LOCATION	MW-22L	MW-25L	MW-27L	MW-31L	MW-32L	MW-36L	MW-37L	MW-38L	MW-39L	MW-40L	PZ-2	PZ-3	PZ-5	PERFORMANCE
DATE COLLECTED	10/04/16	10/05/16	10/19/16	10/19/16	10/19/16	10/04/16	10/05/16	10/19/16	10/19/16	10/19/16	10/05/16	10/05/16	10/19/16	STANDARD
Aldrin	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051_U	_ 0.048 U	0.049 U	0.047 U	0.053 U_	0.055 U	0.052 U	0.05
alpha-BHC	0.17	0.44	1.0	0.37	0.048 U	0.050 U	0.70	0.048 U	0.049 U	0.56	0.25	0.17	0.87	0.05
beta-BHC	0.70	0.39	2.3	0.72	0.048 U	0.050 U	0.63	0.048 U	0.049 U	1.3	0.20	0.083	0.30	0.05
delta-BHC	0.48	0.64	2.2	0.81	0.048 U	0.0 <u>5</u> 0 U	1.3_	0.048 U	0.049 U	1.9	0.19	0.10	0.48	0.05
gamma-BHC (Lindane)	0.13	0.077	0.19	0.073	0.048 U	0.050 U	0.14	0.048 U	0.049 U	0.087	0.18	0.12	0.22	0.2
alpha-Chlordane	0.026 J	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.05 <u>1</u> U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE
gamma-Chlordane	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.0087 J	0.053 U_	0.055 U	0.052 U	NE
Dieldrin	0. <u>0</u> 57 p	0.051 U	0.097	0.021 J	0.048 U	0.050 U	0. <u>014</u> J	0.012 J	0.049 U	0.032 J	0.017 J	0.055 U	0.052 U	0.1
4,4'-DDD	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051_U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U_	0.052 U	_NE
4,4'-DDE	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U_	0.055 U	0.052 U	NE
4,4'-DDT	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U_	0.055 U_	0.052 U	NE
Endosulfan I	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	_0.047 U	0.053 U_	0.055 U	0.052 U	NE
Endosulfan II	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE
Endosulfan sulfate	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE
Endrin	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0,055 U	0.052 U	NE
Endrin aldehyde	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE
Endrin ketone	0.061	0.024 J	0.19	0.050 J	0.048 U	0.050 U	0.036 J	0.048 U	0.049 U	0.074	0.053 U	0.055 U	0.019 J	0.1
Heptachlor_	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE
Heptachlor epoxide	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U	0.052 U	NE _
Methoxychior	0.050 U	0.051 U	0.048 U	0.051 U	0.048 U	0.050 U	0.05 <u>1</u> U	0.048 U	0.049 U	0.047 U	0.053 U	0.055 U_	0.052 U	NE
Toxaphene	1.5 J	5.1 U	4.8 U	5.1 U	4.8 U	5.0 U	5.1 U	4.8 U	4.9 U	4.7 U	5.3 U	5.5 U	5.2 U	11

NOTES

Results are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit
* = LCS and LCSD exceeds the control limits

NE = No standard established

NA = Not analyzed for this compound

U = Indicates the analyte was not detected

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

TABLE 4: INFLUENT AND EFFLUENT MONITORING SUMMARY

PARAMETER		FIRST Q	ÚARTER		SECOND QUARTER							UARTER	FOURTH	QUARTER	
DATE COLLECTED	01/2	27/16	02/1 (resa		04/2	04/28/16		05/17/16 (resample)		06/24/16 (resample)		07/12/16	10/04/16	10/04/16	PERFORMANCE STANDARD
SAMPLE LOCATION	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	l
Aldrin	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0479	0.0216 U	0.029 U	0.0057 U	0.018 Jp	0.048 U	0.05
alpha-BHC	0.055	0.049 U	0.053	0.049 U	0.042 J	0.048 U	0.048 U	0.048 U	0.0385	0.0216 U	0.053 U	0.010 U	0.072	0.048 U	0.05
beta-BHC	2.8	0.059	2.6	0.049 U	2.3	0.057	0.048 U	0.12	1.94	0.0849	2.1	0.0066 U	3.2	0.20	0.05
delta-BHC	0.44	0.049 U	0.37	0.049 U	0.45	0.048 U	0.048 U	0.017 J	0.301	0.0216 U	0.37	0.0075 U	0.46	0.017 J p	0.05
gamma-BHC (Lindane)	0.037 Jp	0.049 U	0.037 Јр	0.049 U	0.032 J p	0.048 U	0.048 U	0.048 U	0.0498	0.0216 U	0.063 U	0.012 U	0.083	0.048 U	0.2
alpha-Chlordane	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.053 U	0.010 U	0.094	0.014 J	NE
gamma-Chlordane	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0,048 U	0.0059 J p	0.0216 U	0.0216 U	0.087 U	0.017 U	0.047 U	0.013 J	NE
Dieldrin	0.32	0.049 U	0.33	0.049 U	0.33 B	0.032 JB	0.048 U	0.076	0.284	0.0303 p	0.24 p	0.012 U	0.36	0.074	0.1
4,4'-DDD	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.058 U	0.011 U	0.047 U	0.048 U	NE
4.4-DDE	0.05 <u>1</u> U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0885	0.0216 U	0.069 J	0.0094 U	0.047 U	0.048 U	NE NE
4,4'-DDT	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.077 U	0.015 U	0.047 U	0.048 U	NE
Endosulfan i	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U_	0,048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.053 U	0.010 U	0.047 U	0.048 U	NË
Endosulfan II	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.178	0.0216 U	0.029 U	0.0057 U	0.047 U	0.048 U	NE
Endosulfan sulfate	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U_	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.038 U	0.0075 U	0.047 U	0.048 U	NE
Endrin	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.048 U	0.0094 U	0.047 U	0.048 U	NE
Endrin aldehyde	0.051 U	0.049 U	0.048 U	0.049 U_	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.043 U	0.0085 U	0.047 U	0.048 U	NE
Endrin ketone	0.28	0.049 U	0.35	0.049 U	0.23	0.024 J	0.048 U	0.043 J	0.186	· 0.0226	0.16	0.014 U	0.22	0.051	0.1
Heptachlor	0.051 U	0.049 U	0.048 U	0.049 U	0.048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.029 U	0.0057 U	0.047 U	0.048 U	NE_
Heptachlor epoxide	0.051 U	0.049 U	0.086	0.049 U	0,055 p B	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.034 U	0.0066 U	0.054 p	0.048 U	NE
Methoxychlor	0.051 U	0.049 U	0.048 U	0.049 U	0,048 U	0.048 U	0.048 U	0.048 U	0.0216 U	0.0216 U	0.087 U	0.017 U	0.047 U	0.048 U	NE
Toxaphene	5.7	4.9 U	6.3	4.9 U_	7.3	4.8 U	0.048 U	1.1 J	1.72 U	1.72 U	5.8 U	1.1 U	6.7	1.1 J	1
Trichloroethene	0.93 J	1.0 U	0.77 J	1.0 U	1.0 U	1.0 U	0.73 J	1.0 U	1.0 U	1.0 U	0.66 J	0.20 U	0.53 J	1.0 U	**

Results are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit

T = Trichloroethene is not a COC for the Geigy site.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

NE = No standard established

U = Indicates the analyte was not detected

TABLE 5: ON SITE GROUNDWATER MONITORING SUMMARY

PARAMETER	ANALYTICAL D	ATA											
SAMPLE LOCATION	MW-4S	MW-5S	MW-6S	MW-10S	MW-11D	MW-16S	MW-16D	MW-17S	MW-17D	MW-18S	MW-18D	MW-30D	PERFORMANCE STANDARD
DATE COLLECTED	10/05/16	10/05/16	10/05/16	10/05/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/05/16	10/04/16	STANDARD
Aldrin	0.050 U	0.096 p	0.011 J p	0.055 U	0.058 U	0.053 U	NA _	0.049 U	NA_	0.055 U	0.049 U	0.049 U	0.05
alpha-BHC	0.14	0.026 J	0.039 J	0.055 U	0.022 J	0.053 U	NA NA	0.049 U	NA NA	0.055 U	0.050	0.12	0.05
beta-BHC	48	2.5	2.8	0.31	1.1	0.053 U	NA	0.020 J	NA	0.063	0.58	4.5	0.05
delta-BHC	0.40 p	0.23	0.24	0.055 U	0.072	0.053 U	NA	0.049 U	NA	0.055 U	0.11	0.50	0.05
gamma-BHC (Lindane)	0.077 p	0.058	0.051 U	0.055 U	0.019 J	0.053 U	NA_	0.049 U	NA	0.055 U	0.062	0.11	0.2
alpha-Chlordane	0.050 U	0.22	0.051 U	0.055 ป	9.027 J	0.053 U	NA	0.049 U	NA	0.055 U	0.049 U	0.11	NE
gamma-Chlordane	0.050 U	0.15	0.051 U	0.055 U	0.019 J	0.053 U	NA	0.049 U	NA NA	0.055 U	0.049 U	0.066	NE
Dieldrin	6.2	0.87	0.22	0.037 J p	0.089 p	0.053 U	NA NA	0.049 U	NA NA	0.031 J	0.10	0.50	0.1
4,4'-DDD	0.050 U	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA_	0.049 U	NA_	0.055 U	0.049 U	0.049 U	NE
4,4'-DDE	0.050 U_	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA	0.049 U	NA	0.055 ป	0.011 J p	0.049 U	NE
4,4'-DDT	0.050 U	0.058 U	0.051 U	0.021 J p	0.058 U	0.053 U	NA_	0.049 U	NA	0.055 U	0.049 U	0.049 U	NE
Endosulfan I	0.050 U	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Endosulfan II	0.050 U	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Endosulfan sulfate	0.050 U	0.058 U	0,051 U	0.055 U	0.017 J	0.053 U	NA NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Endrin	1.5	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Endrin aldehyde	0.050 U	0.058 U	0.051 U	0,055 U	0,058 U	0.053 U	NA NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Endrin ketone	6.4	0.29	0.18	0.061	0,091	0.053 U	NA NA	0.049 U	NA	0.021 J	0.076	0.39	0.1
Heptachlor	0.050 U	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA NA	0.049 U	NA_	0.055 U	0.049 LJ	0.049 U	NE NE
Heptachlor epoxide	0.52 p	0.058 U	0.032 J p	0.055 U	0.030 J	0.053 U	NA	0.049 U	NA_	0.055 U	0.013 J p	0.092	NE
Methoxychlor	0.050 U	0.058 U	0.051 U	0.055 U	0.058 U	0.053 U	NA	0.049 U	NA NA	0.055 U	0.049 U	0.049 U	NE
Toxaphene	24 p	17	4.2 J p	0.52 J p	2.1 J	5.3 U	NA NA	4.9 U	NA NA	0.24 J p	3.2 J	B.1	1
Trichloroethene	NA	NA	NA NA	1.0 U	1.0 U	1.0 U	59	1.0 U	160_	1.0 U	1.1_	1.3	· ·

NOTES

NE = No standard established NA = Not analyzed for this compound

U = Indicates the analyte was not detected

Resulls are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit

^{** =} Trichloroethene is not a COC for the Geigy site.

p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Bold = Concentration exceeds performance standard or method detection limits if no standard is established

TABLE 6: GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SUMMARY

LOCATION													
DATE	12/30/15	01/27/16	02/18/16	03/30/16	04/28/16	05/17/16	06/24/16	07/12/16	08/03/16	09/13/16	10/04/16	11/17/16	12/21/16
PW-1S	5,206,763	5,224,913	5,236,925 1	5,248,937 ¹	5,260,949 ¹	5,315,555	5,389,506	5,444,649	5,497,625	5,590,483	5,635,708	5,801,840	5,888,097
PW-1D	61,803,778	62,151,975	62,426,174	62,799,300	63,127,268	63,310,481	63,582,674	63,770,362	64,024,704	64,498,994	64,745,517	64,994,611	65,284,971 4
PW-2S	1,433,548	1,448,740	1,461,833	1,489,090	1,508,759	1,521,071	1,534,733	1,549,081	1,562,714	1,592,971	1,607,212	1,639,836	1,661,379
PW-2D	17,764,743	17,851,900	17,924,972	18,035,403	18,135,426	18,198,085	18,292,463	18,358,062	18,443,471	18,599,433	18,680,834	18,830,507	18,904,723
PW-3S	1,761,752	1,789,383	1,815,958	1,868,177	1,898,690	1,932,954 ²	1,967,214 ³	1,977,096	1,990,180	2,015,664	2,028,463	2,097,147	2,129,564
PW-3D	15,098,339	15,190,393	15,267,088	15,379,319	15,491,550	15,553,572	15,645,840	15,710,541	15,796,869	15,942,912	16,020,768	16,155,994	16,219,565
PW-4S	21,539,792	21,663,883	21,762,731	21,892,699	22,014,538	22,089,076	22,201,959	22,275,963	22,384,675	22,580,281	22,678,719	22,843,876	22,920,173
Extraction Wells	124,608,715	125,321,187	125,895,681	126,712,925	127,437,180	127,920,794	128,614,389	129,085,754	129,700,238	130,820,738	131,397,221	132,363,811	133,008,472
Treatment Building	132,466,791	133,213,702	133,798,492	134,778,887	135,492,555	135,961,742	136,646,738	137,138,855	137,781,637	138,956,896	139,557,837	140,790,259	141,398,952
Difference	7,858,076	7,892,515	7,902,811	8,065,962	8,055,375	8,040,948	8,032,349	8,053,101	8,081,399	8,136,158	8,160,616	8,426,448	8,390,480
% Difference	5.9%	5.9%	5,9%	6.0%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.8%	6.0%	5.9%
LOCATION													
TIME PERIOD	11/04/15	12/30/15	01/27/16	02/18/16	03/30/16	04/28/16	05/17/16	06/24/16	07/12/16	08/03/16	09/13/16	10/04/16	11/17/16
I I I I I I I I I I I I I I I I I I I	12/30/15	01/27/16	02/18/16	03/30/16_	04/28/16	05/17/16	06/24/16	07/12/16	08/03/16	09/13/16	10/04/16	11/17/16	12/21/16
DAYS IN PERIOD	56	28	22	41	29	19	38	18	22	41	21	44	34
TOTAL DAYS OF OPERATION	6,735	6,763	6,785	6,826	6,855	6,874	6,912	6,930	6,952	6,993	7,014	7,058	7,092
Average Daily Volume (gallons)													
PW-1S	470	648	546	293	414	2,874	1,946	3,064	2,408	2,265	2,154	3,776	2,537
PW-1D	10,586	12,436	12,464	9,101	11,309	9,643	7,163	10,427	11,561	11,568	11,739	5,661	8,540
PW-2S	423	543	595	665	678	648	360	797	620	738	678	741	634
PW-2D	2,125	3,113	3,321	2,693	3,449	3,298	2,484	3,644	3,882	3,804	3,876	3,402	2,183
PW-3S	629	987	1,208	1,274	1,052	1,803	902	549	595	622	609	1,561	953
PW-3D	2,985	3,288	3,486	2,737	3,870	3,264	2,428	3,595	3,924	3,562	3,707	3,073	1,870
PW-4S	3,401	4,432	4,493	3,170	4,201	3,923	2,971	4,111	4,941	4,771	4,688	3,754	2,244
Extraction Wells	20,618	25,445	26,113	19,933	24,974	25,453	18,253	26,187	27,931	27,329	27,452	21,968	18,961
Average Flow Rate (gallons per	minute)												
PW-1S	0.33	0.45	0.38	0.20	0.29	2.00	1.35	2.13	1.67	1.57	1.50	2.62	1.76
PW-1D	7.35	8.64	8.66	6.32	7.85	6.70	4.97	7.24	8.03	8.03	8.15	3.93	5.93
PW-2S	0.29	0.38	0.41	0.46	0.47	0.45	0.25	0.55	0.43	0.51	0.47	0.51	0.44
PW-2D	1.48	2.16	2.31	1.87	2.40	2.29	1.72	2.53	2.70	2.64	2.69	2.36	1.52
PW-3S	0.44	0.69	0.84	0.88	0.73	1.25	0.63	0.38	0.41	0.43	0.42	1.08	0.66
PW-3D	2.07	2.28	2.42	1.90	2.69	2,27	1.69	2.50	2.73	2.47	2.57	2.13	1,30
PW-4S	2.36	3,08	3.12	2.20	2.92	2,72	2,06	2.86	3.43	3.31	3,26	2.61	1,56
Extraction Wells	14.32	17.67	18.13	13.84	17.34	17.68	12.68	18.19	19.40	18.98	19.06	15,26	13,17
SYSTEM TO DATE	13.66	13,68	13.69	13,71	13,73	13.74	13.73	13.74	13.76	13.80	13.82	13.85	13.85
NOTES	•			·									

NOTE

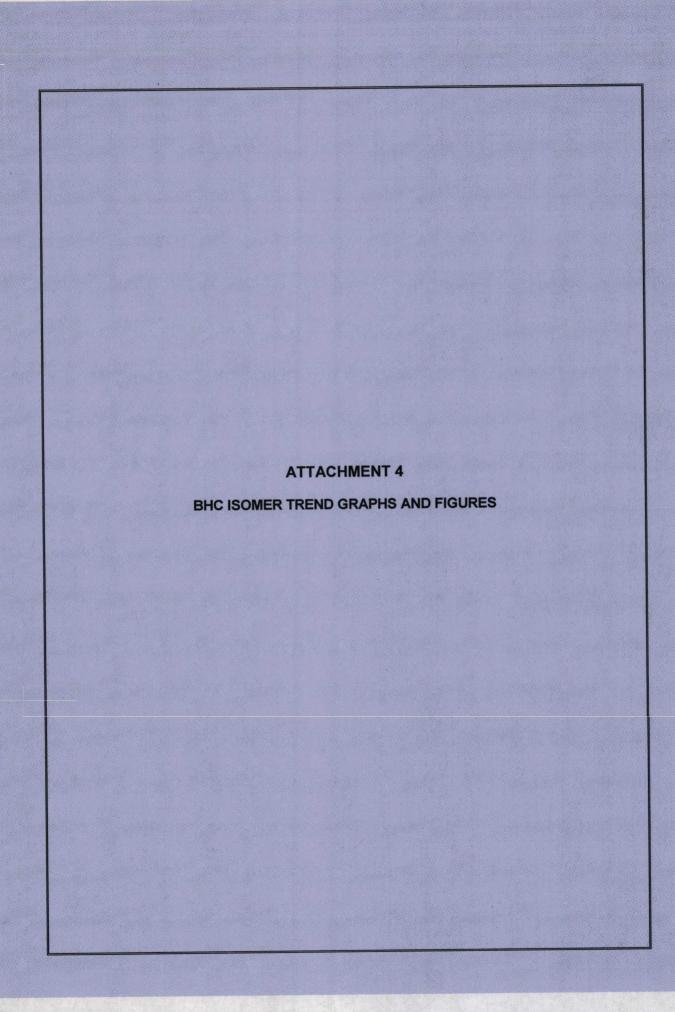
© 2017 EnviroTrac

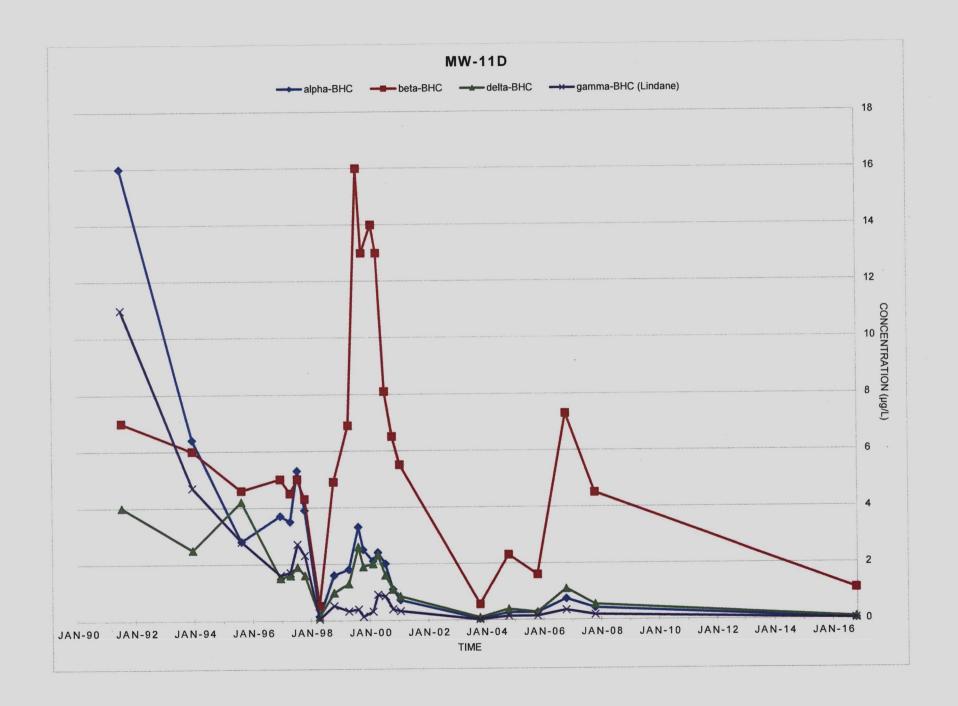
¹ Estimated gallons, based on average flow during the last three years. Flow meter replaced 4/28/16.

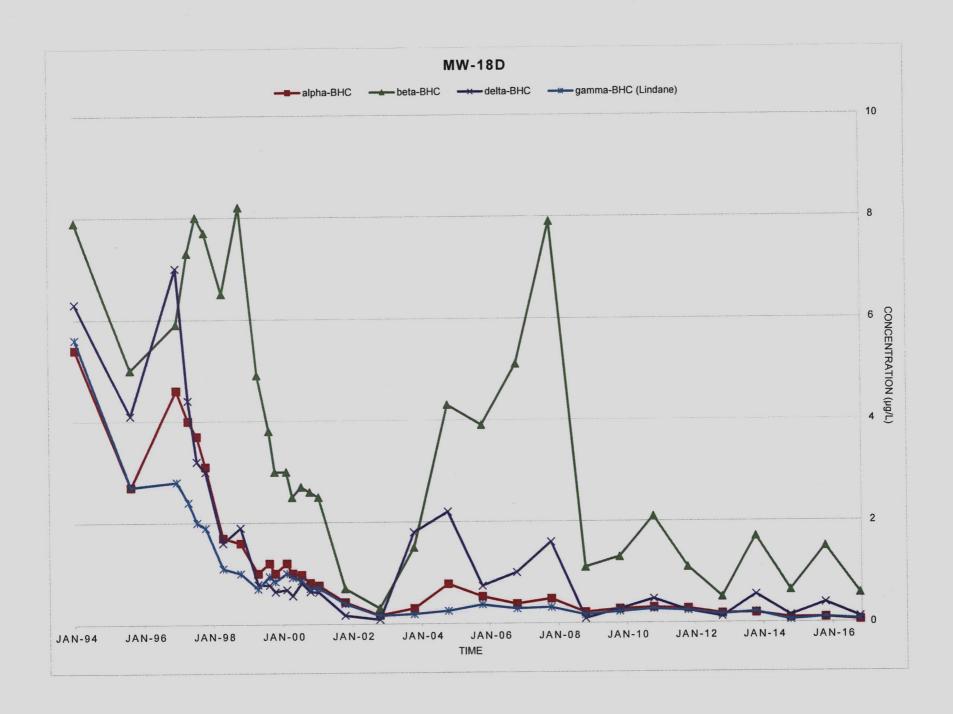
² Groundwater pump in PW-3S failed and was replaced 5/19/16.

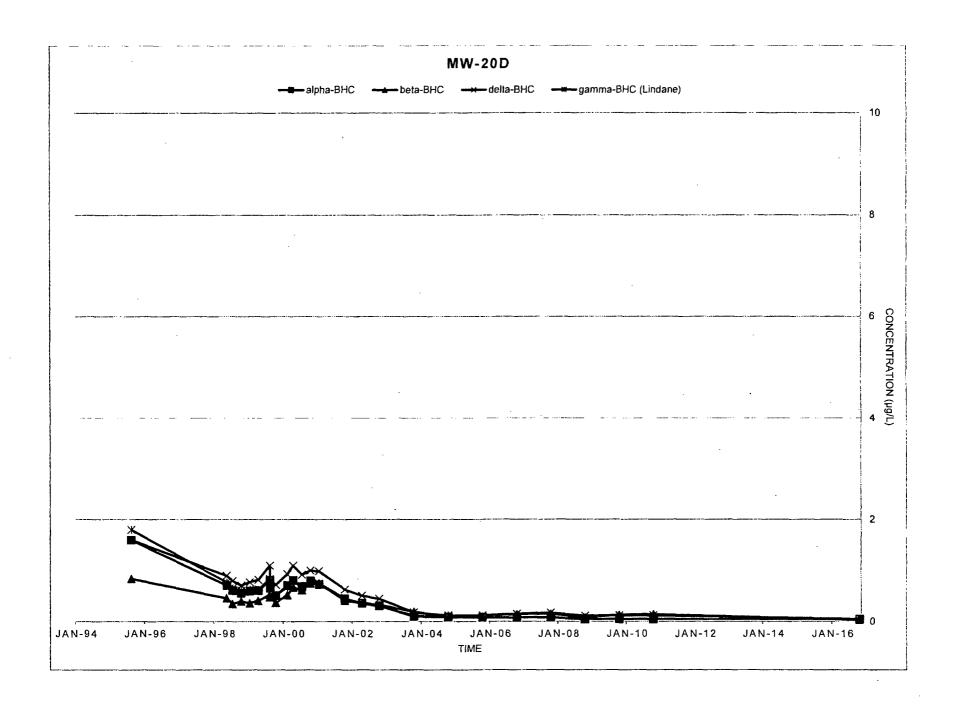
³ Estimated gallons, based on average flow during the last three years. Flow meter replaced 7/18/16.

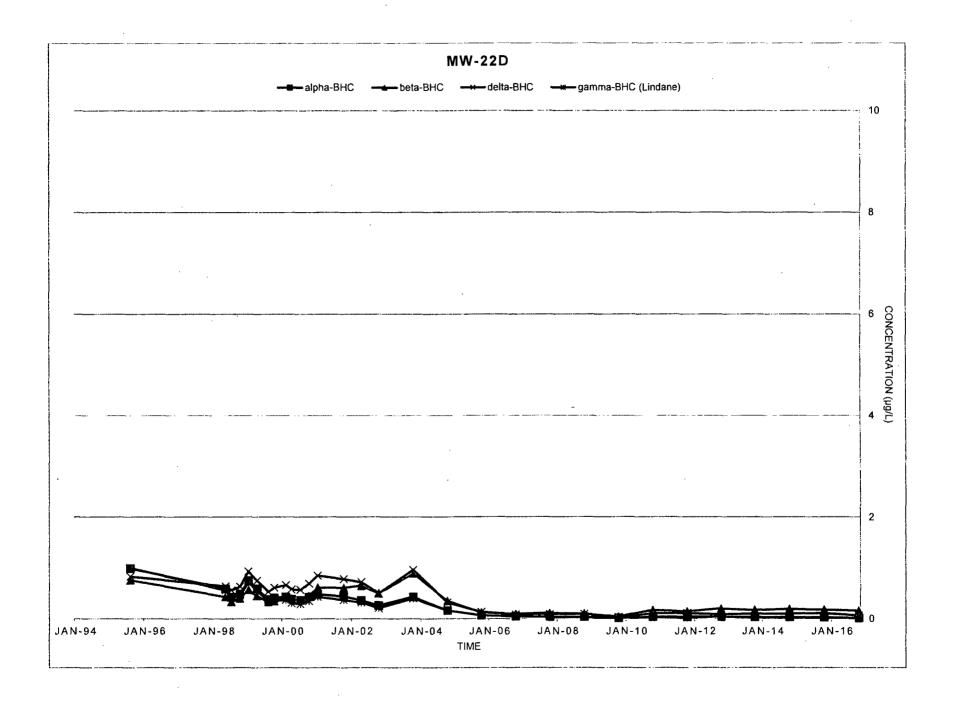
⁴ Estimated gallons, based on average flow during the last three years. Flow meter replaced 12/21/16.

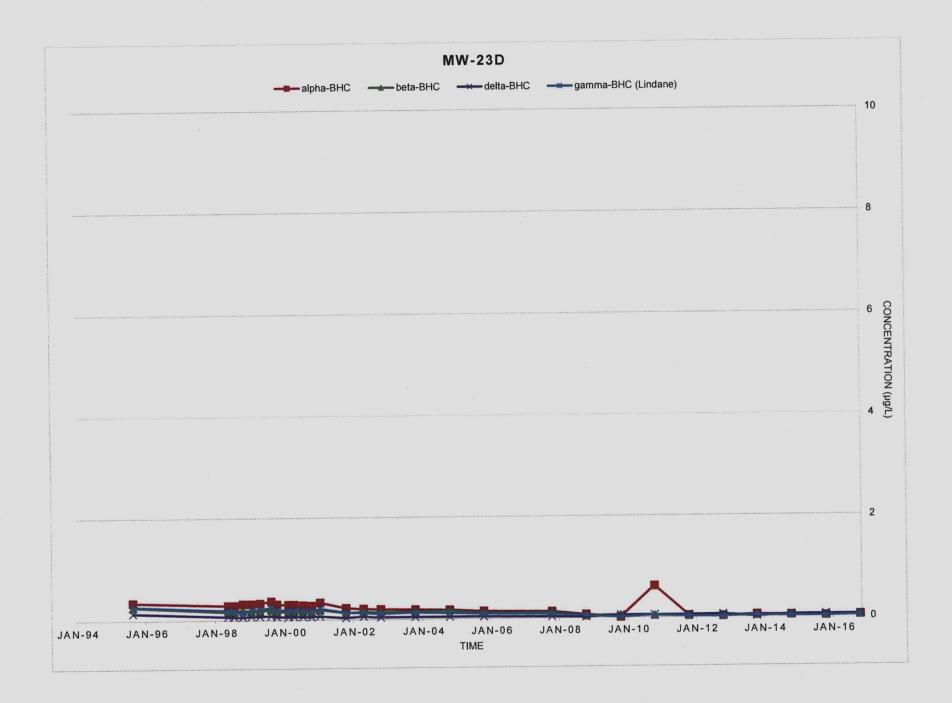


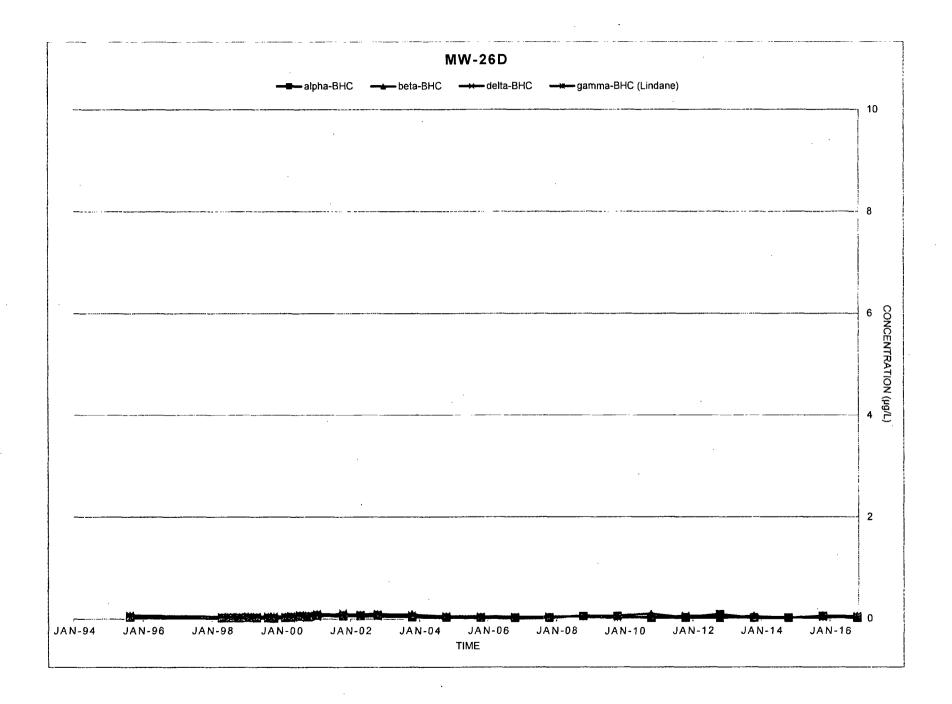


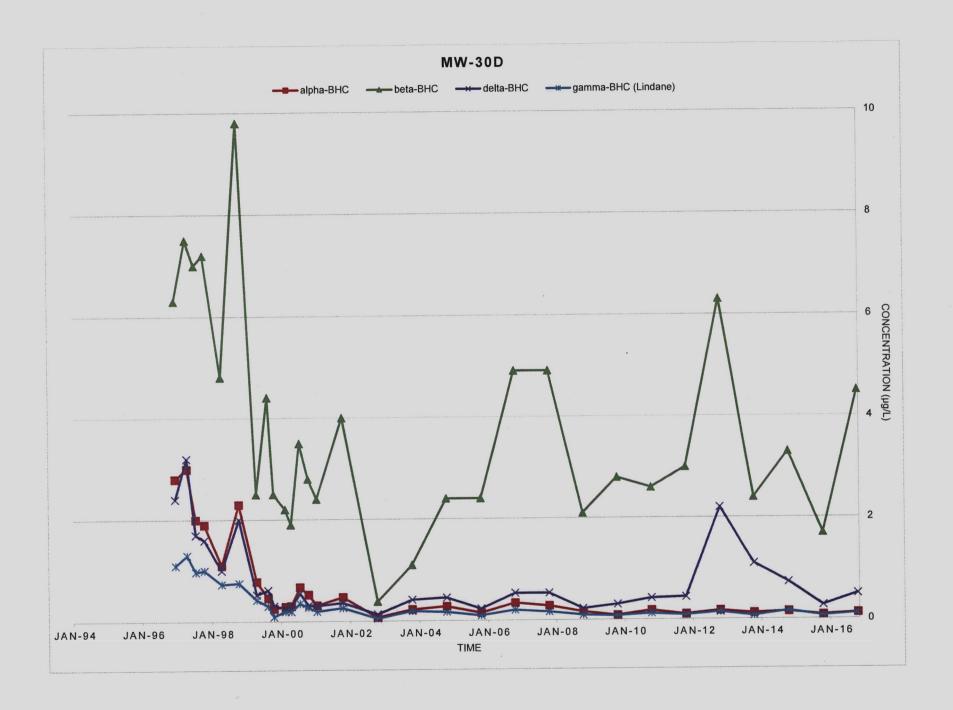


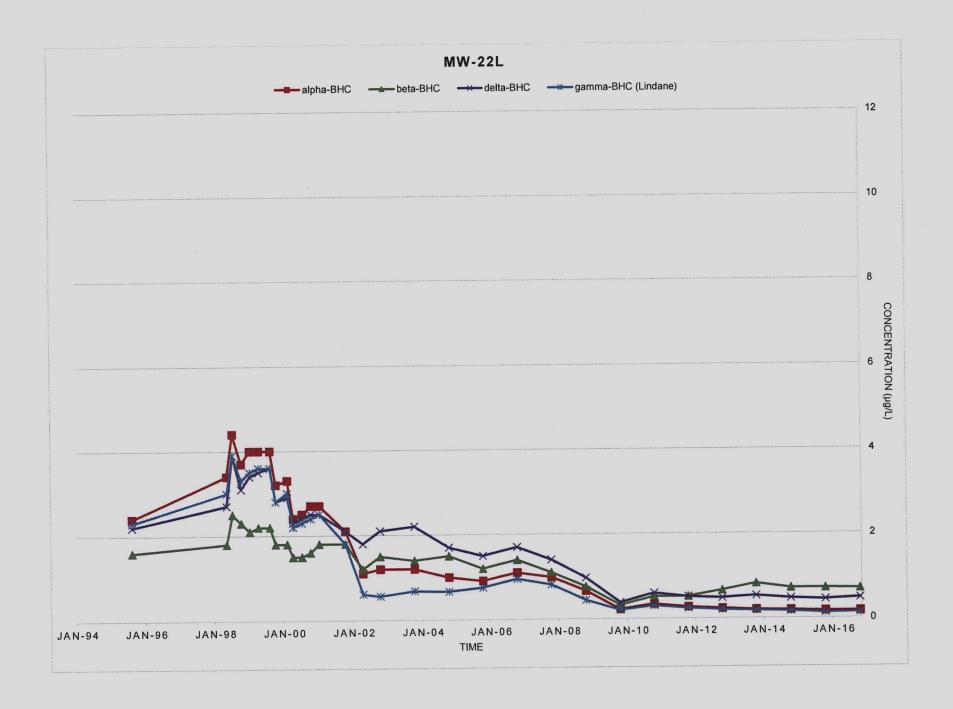


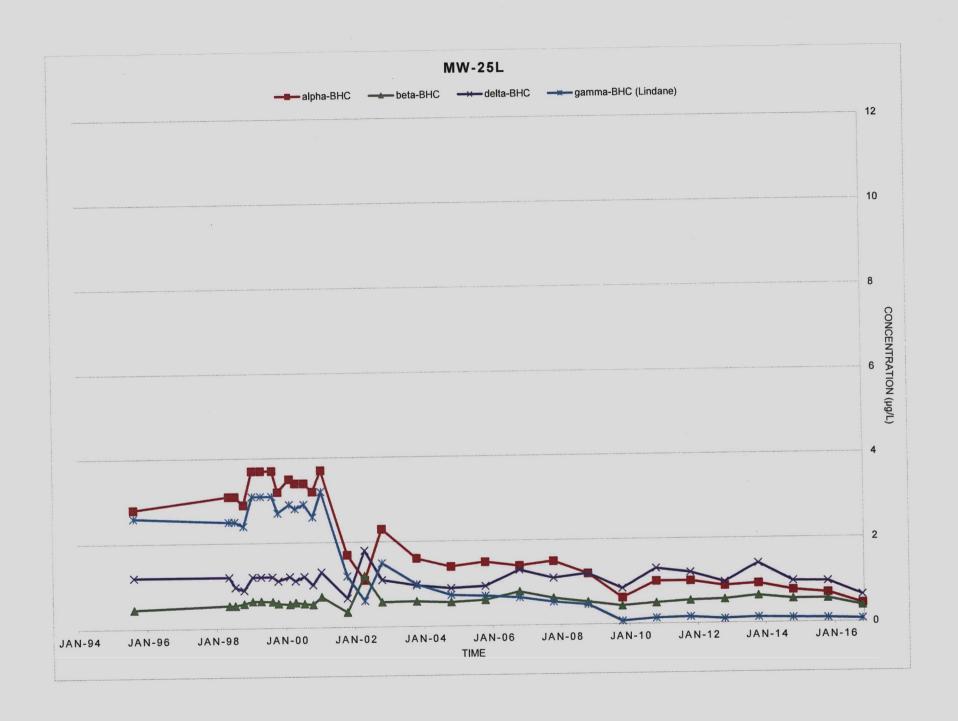


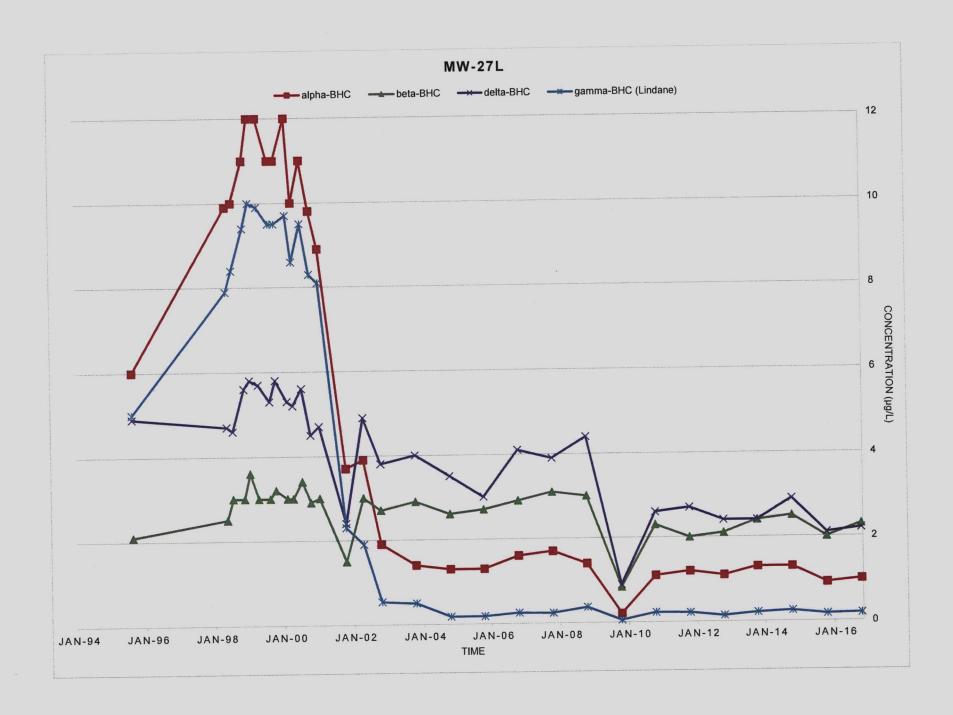


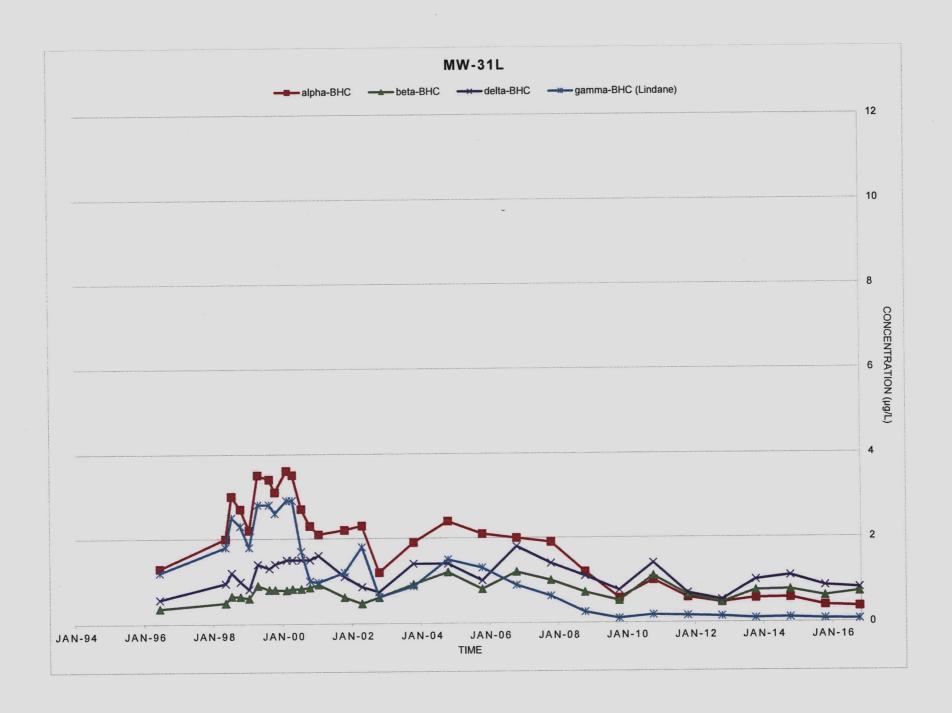


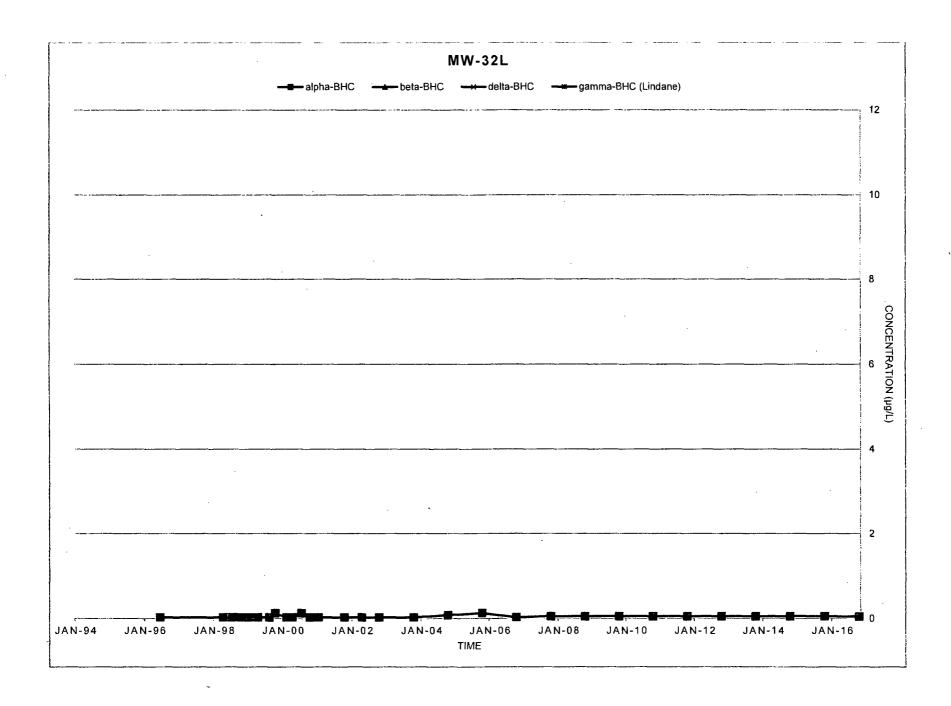


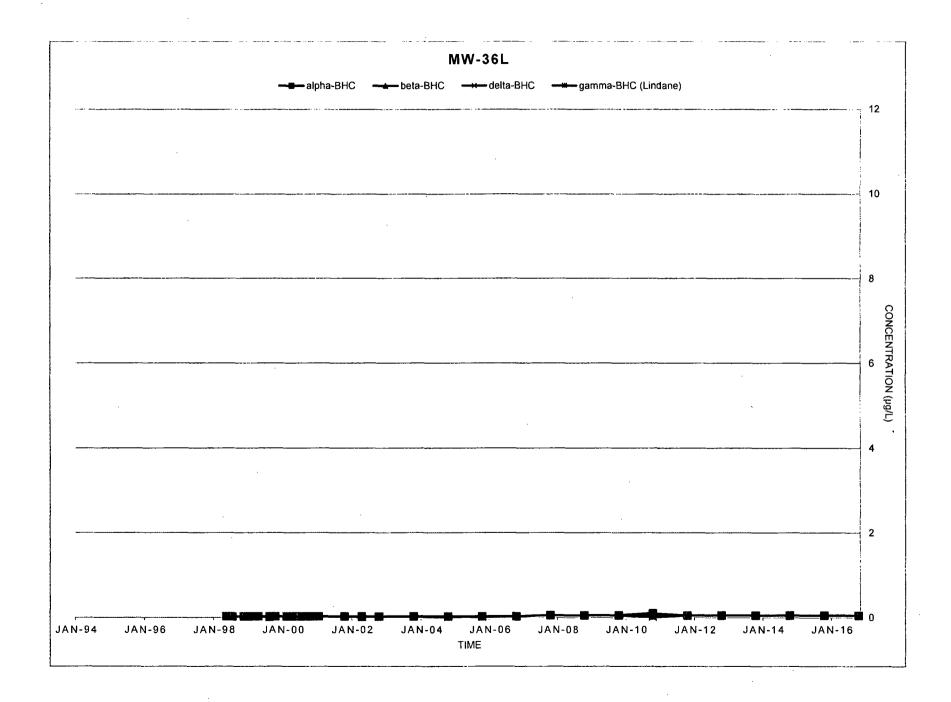


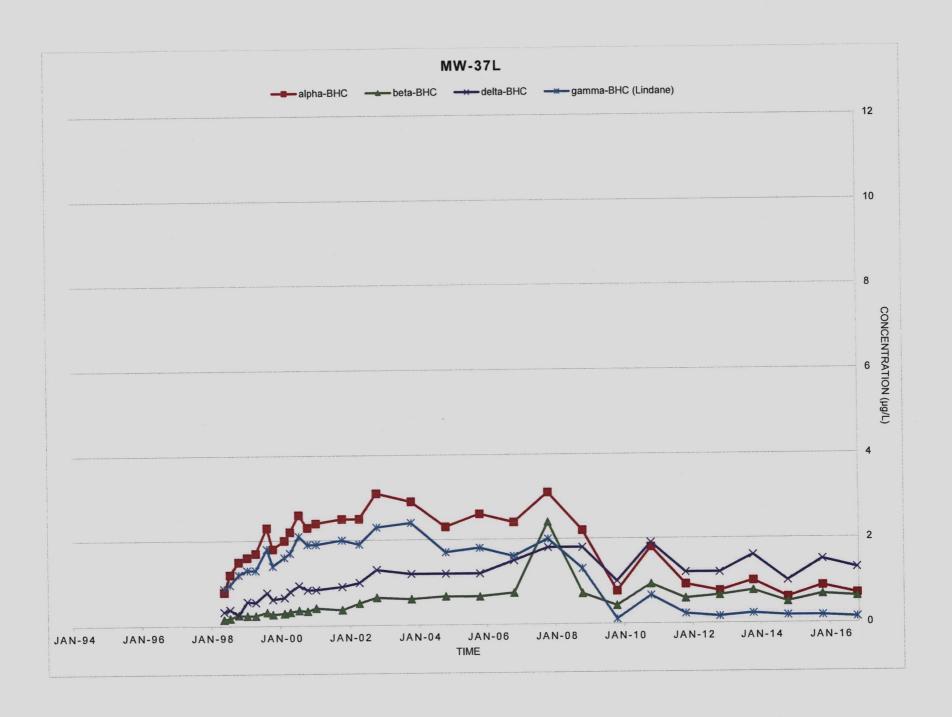


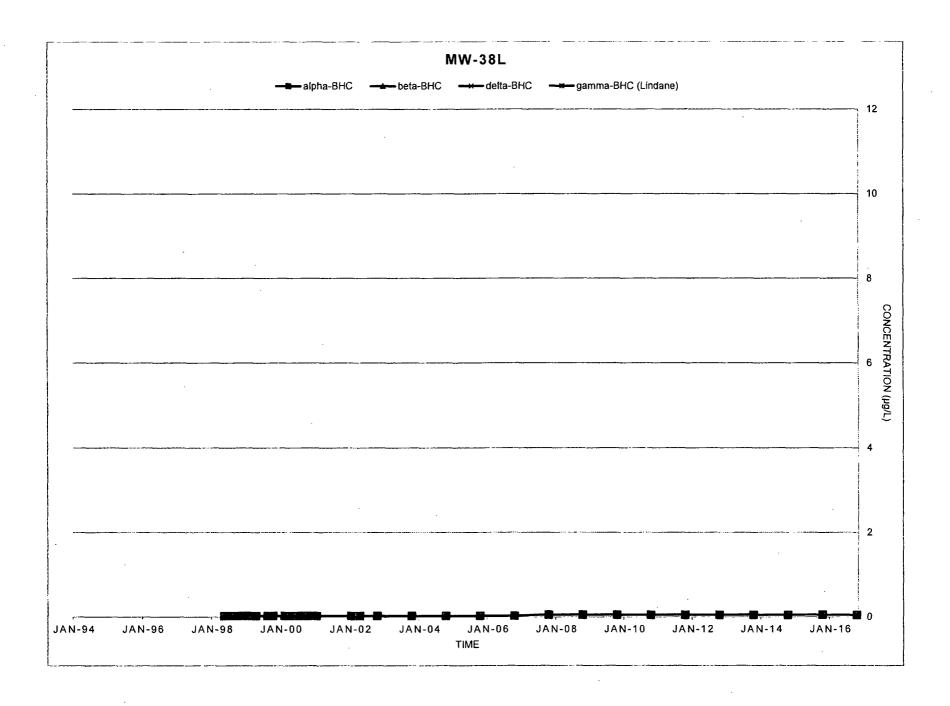


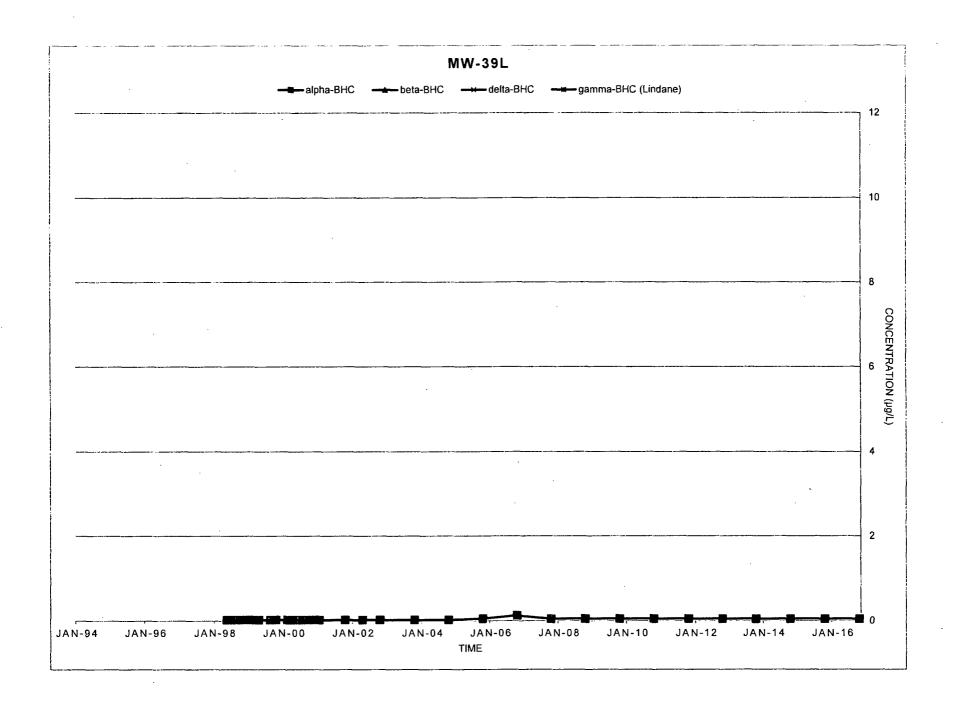


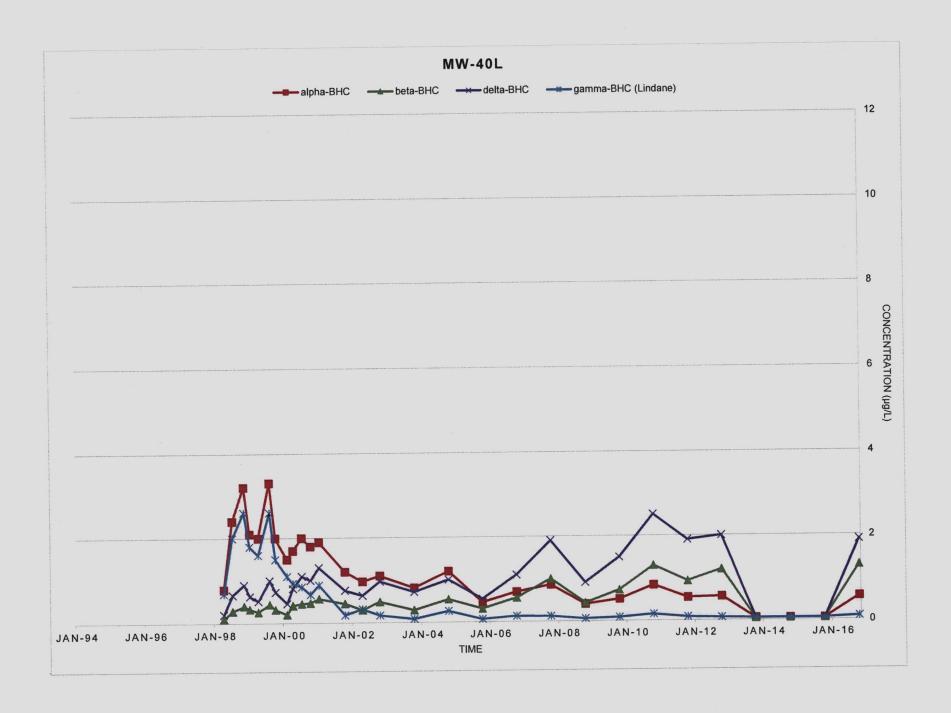


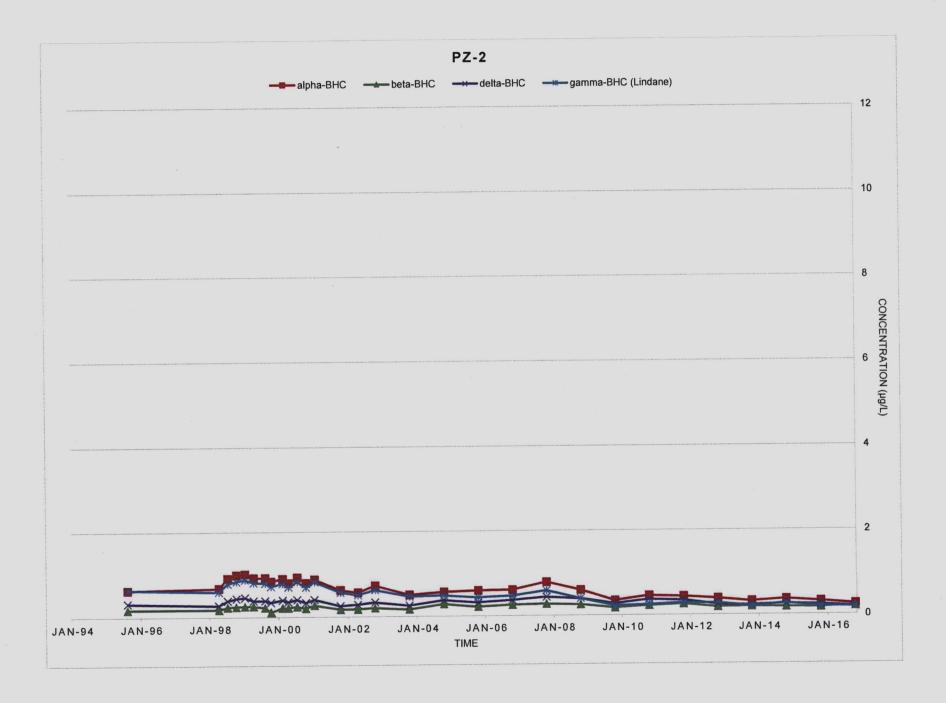


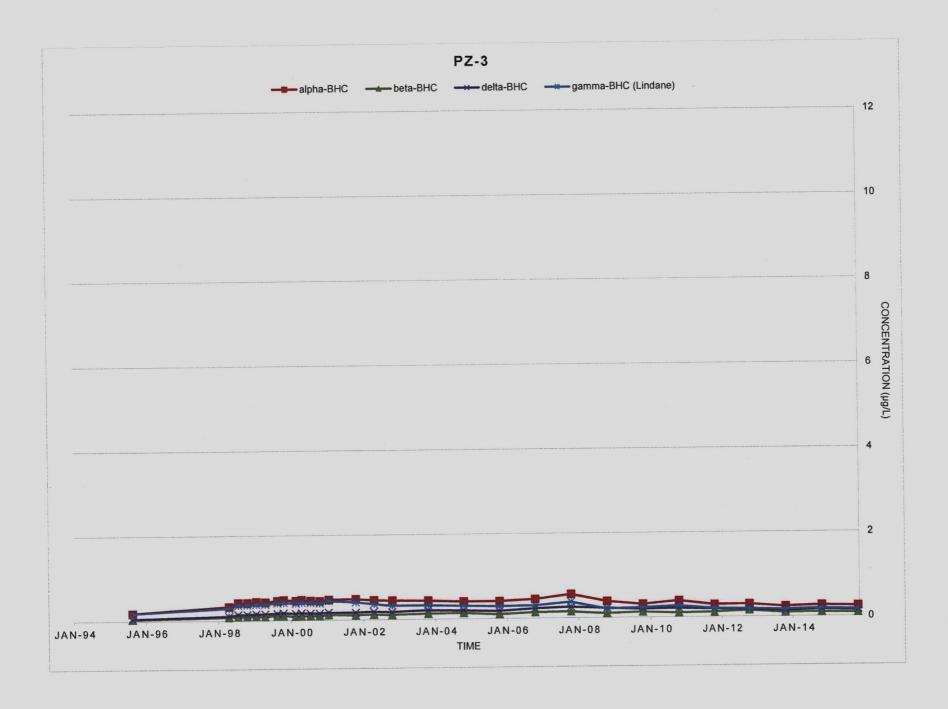


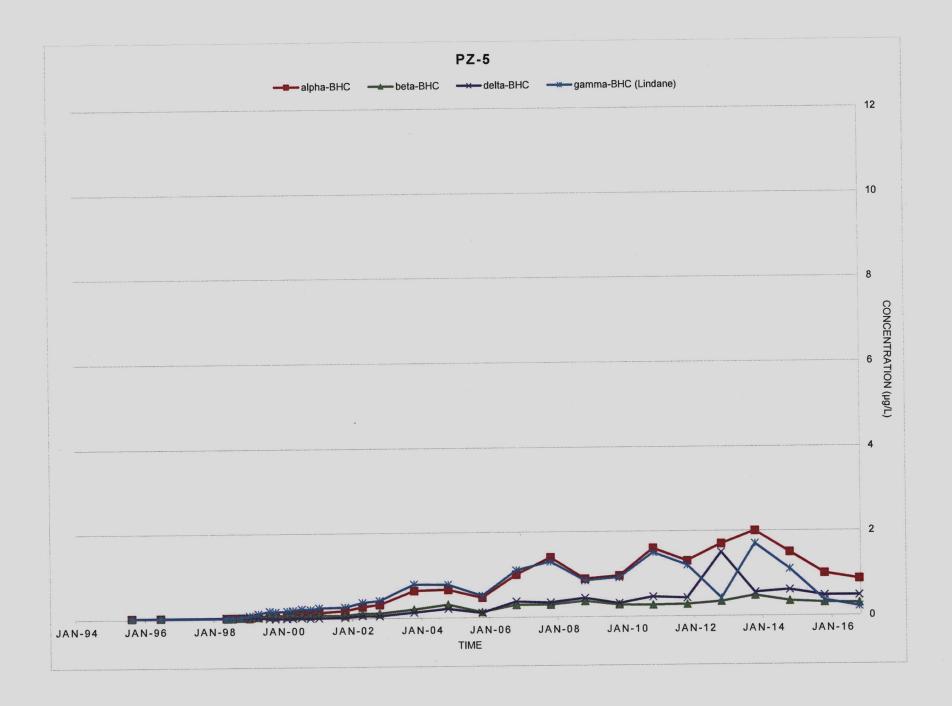


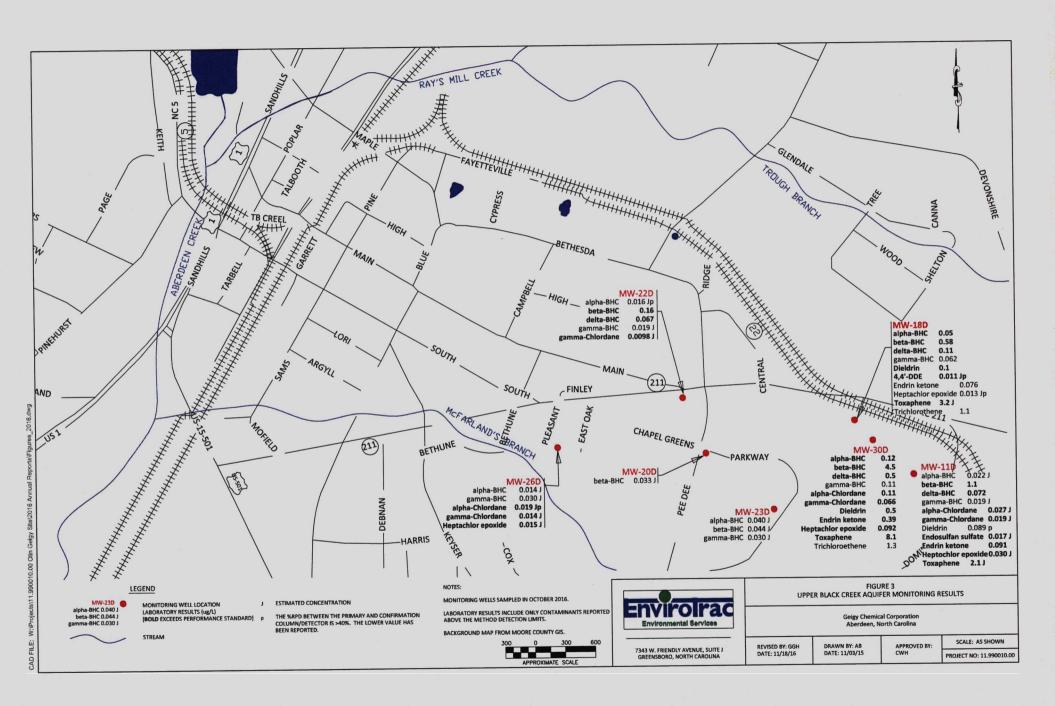


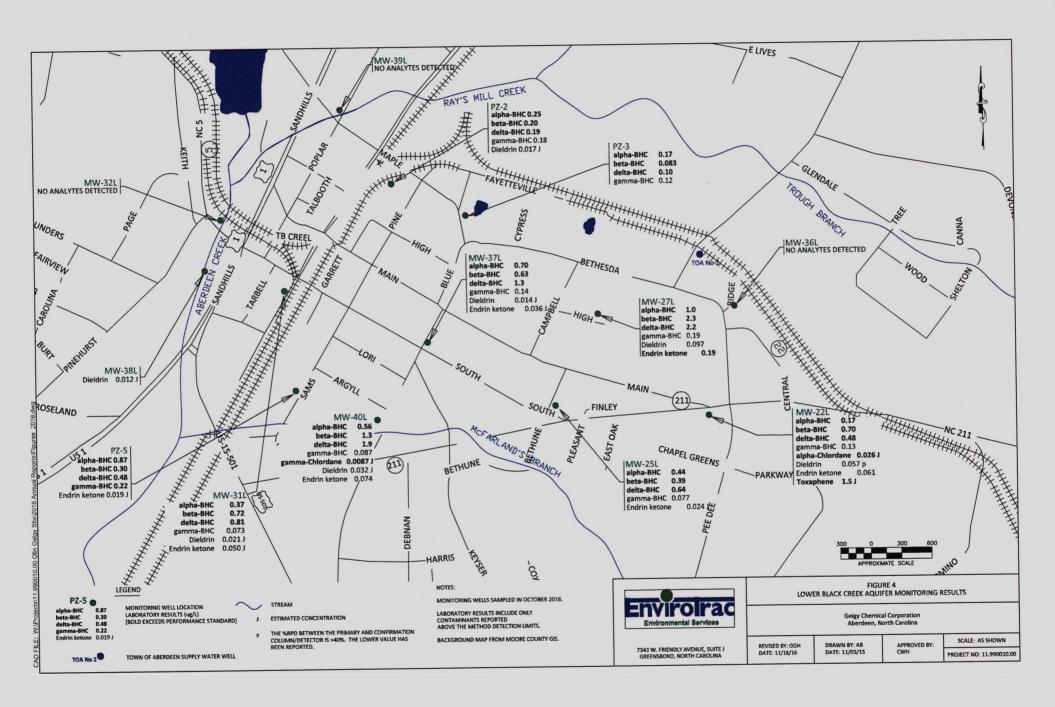


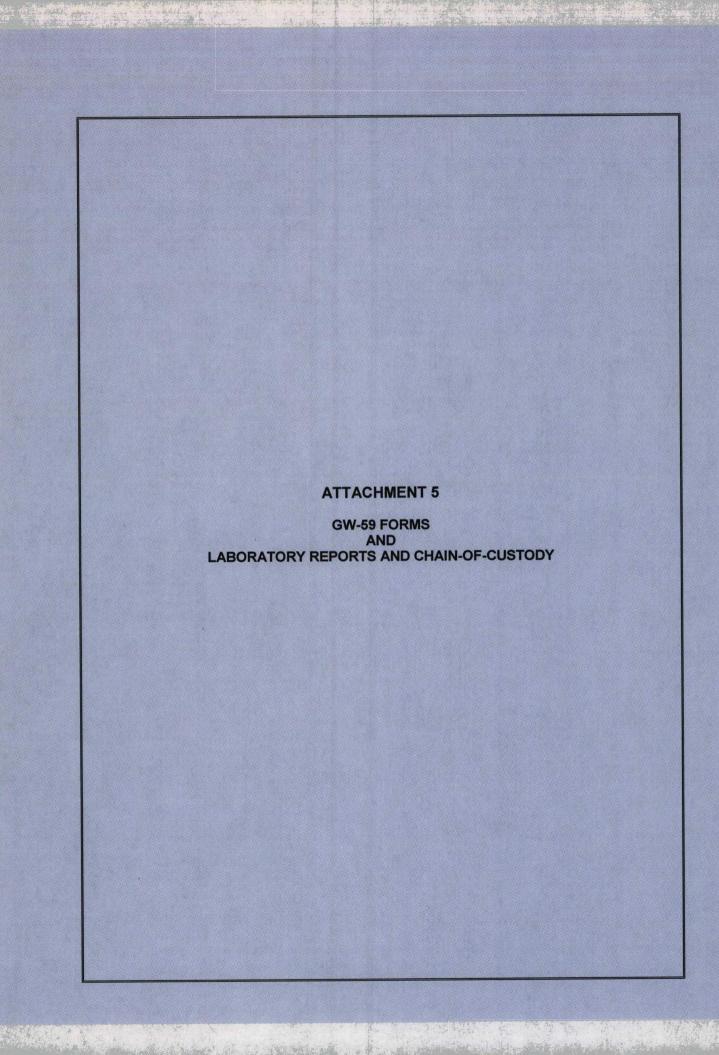












GROUNDWATER QUALITY MONITORING:		and 1 cany to:		NFORMATION PROCESSING UNIT	
COMPLIANCE REPORT FORM	ase Print Clearly or Type			VALEIGH, NO 276004007 Phones (
ACILITY INFORMATION	• •		PERMIT Number:	Expiration Date: 05/31	
Facility Name: Geigy Chemical Corporation S	ite		Non-Discharge WQ00099		
Permit Name (if different):			NPDES	Other	
Facility Address: Domino Drive			_	ERATION BEING MONITORE	
Aberdeen NC	County Moore		☐ Lagoon	Remediation: Infiltrat	•
, ,	• • •		Spray Field	Remediation: Groun	
Contact Person: Garland Hilliard	Telephone#: 423.336	.4479	Rotary Distributor	Land Application of S	
Nell Location/Site Name:			☐ Water Source Heat F	Pump Other:	
SAMPLING INFORMATION					If WELL
WELL ID NUMBER (from Permit): Influent	Date sample collected:	1/27/16	FIELD ANALYSES:		WAS
Well Depth:ft.	Well Diameter:		pHunits	·	DRY at
Depth to Water Level:ft. below measuring	point Screened Interval:	ft. tof	ft. Spec. Cond.	μ M hos	time of samplin
Measuring Point isft. above land surfac	e Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before sampling:	gallons	•	Appearance		here:
Samples for metals were collected unfiltered: YE	S NO and field acidified:	YES NO			
ABORATORY INFORMATION Date sample analyzed: 2/1/16 TCE, 2/2/16 PEST	Laboratory Name: Tes	st America		Certification No.	
PARAMETERS NOTE: Values should reflect diss			·		
COD mg.	/I Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal /10	0ml Nitrate (NO₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total /10	0ml Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)	Orthophosphate	mg/l	Other (Specify Comp	ounds and Concentration Units	s):
Dissolved Solids: Totalmg	/I Al - Aluminum	mg/l	TCE 0.93J, alpha	a-BHC 0.055, beta-BHC 2.	В,
pH (when analyzed)uni			delta-BHC 0.44,	gamma-BHC 0.037Jp,	
TOCmg				drin ketone 0.28, Toxaphe	ne
Chloridemg	·		5.7 (all ug/L)		
Arsenicmg		mg/l			
Grease and Oilsmg			ORGANICS: (by GC	, GC/MS, HPLC)	 _
Phenolmg		mg/l	, ,	ethod #. ATTACH LAB REPO	RT.)
Sulfatemg			Report Attached?		-
	hos K - Potassium		-	, method # <u>8260</u>	
Total Ammonia mg	** ** ** *** *** *** *** *** *** *** *			method # 8081B/8082	<u>-</u> -
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	
TKN as Nmg				, method #	
For Remediation Systems Only (Attach Lab Report	ts): Influent Total VOCs: 0.000	93.1 mg/l Efflue			val% 10
certify that, to the best of my knowledge and belief, the informatic DWO-certified laboratory. I am aware that there are significant per					oy a
y traction appraising in am aware that there are significant per	remes to submitting rease information, including th	e possibility of files of the fi	A DISSUITED TO KNOWING VIOLATION	·	

GROUNDWATER QUALITY MOI COMPLIANCE REPORT FORM	NITORING:		1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (915	9) 733-3221
FACILITY INFORMATION	Please Print Clea	arly or Type		PERMIT Number:	Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Co	propration Site				49 UIC	
Permit Name (if different):	a portune a constant			NPDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		Lagoon	Remediation: Infiltration	Gallen/
(City)	(State) (Zip)	County Notice		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		Rotary Distributor	☐ Land Application of Slu	
Well Location/Site Name:					ump Other:	age
vveii Location/Site Name.			rom Permit)	- Water Source Heat Fi	ump = other.	
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Ir	nfluent	Date sample collected: 1/27/1	16	FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:ir	٦.	pHunits	Temp°C	DRY at time of
Depth to Water Level:ft. belo	w measuring point	Screened Interval:ft	t. tof	t. Spec. Cond.	μMhos	sampling,
Measuring Point isft. abo	ve land surface	Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before s		gallons		Appearance		here:
Samples for metals were collected unfi		NO and field acidified: YES	□NO			
LABORATORY INFORMATION Date sample analyzed: 2/1/16 TCE, 2		Laboratory Name: Test Ame	rica		Certification No	
PARAMETERS NOTE: Values shoul COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph - I ead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
	/100ml	Phosphorus: Total as P				
Coliform: MF Total (Note: Use MPN method for highly turbid sam				Other (Specify Compo	ounds and Concentration Units):	
		Orthophosphate			BHC 0.055, beta-BHC 2.8,	
Dissolved Solids: Total		AI - Aluminum			amma-BHC 0.037Jp,	
pH (when analyzed)		Ba - Barium			rin ketone 0.28, Toxaphene	
TOC		Ca - Calcium		5.7 (all ug/L)	TITI RELOTIC 0.20, TOXAPTICITE	
Chloride		Cd - Cadmium		3.7 (all ug/L)		
Arsenic	mg/l	Chromium: Total		ORGANICS: (by GC,	GC/MS HBI C)	
Grease and Oils		Cu - Copper			thod #. ATTACH LAB REPORT	
Phenol	mg/l	Fe - Iron			Yes (1) No (0)	-/
Sulfate	mg/I μMhos	Hg - Mercury			, method # 8260	
Specific Conductance		K - Potassium			, method # 8081B/8082A	monocoly
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitro	mg/l gen, Total)	Mg - Magnesium	THE PERSON NAMED IN COLUMN 1	The state of the s	, method #	THE PARTY OF THE P
		Mn - Manganese Ni - Nickel			, method #	
TKN as N						
For Remediation Systems Only (Attac	h Lab Reports):	nfluent Total VOCs: 0.00093J n	ng/L Effluer	nt Total VOCs:	<0.001 mg/L VOC Remova	100
I certify that, to the best of my knowledge and bel DWQ-certified laboratory. I am aware that there a						a
Garland Hilliard - Director, Enviro	nmental Remediation		NX		2/13/1-	7
Permittee (or Authorized Agent) Name and Title			of Permittee (of	Authorized Agent)	(Date)	

GROUNDWATER Q	UALITY MONITORIN	NG:		and 1 co	ony to:	IVISION OF WATER QUALITY-INF 617 MAIL SERVICE CENTER, RAL		733-3221
FACILITY INFORMATIO		Please Print Clearly of	or Type			PERMIT Number:	Expiration Date: 05/31/18	
Facility Name: Geigy	Chemical Corporation	n Site				Ion-Discharge WQ0009949		
Permit Name (if different)						IPDES	Other	
Facility Address: Domin						-	RATION BEING MONITORED	
	(Street) NC		County Moor	re	- [Lagoon	Remediation: Infiltration	Gallery
(City)	(State)		Odunty ividen		- 1	☐ Spray Field	Remediation: Ground	
Contact Person: Garla	nd Hilliard		Telephone#:423.	336,4479		Rotary Distributor	☐ Land Application of Sluc	
Well Location/Site Name			No. of wells to be				mp Other:	.gc
				(from Pe	ermit)			licane i
SAMPLING INFORMATI WELL ID NUMBER (from			Date sample collec	sted: 2/19/16		FIELD ANALYSES:		If WELL WAS
			The second secon	eter:in.		pHunits	Temp°C	DRY at
	ft. ft. below measur	ring point		rval:ft.	to ft		топпр	time of
	ft. above land su		Relative M.P. Eleva			Odor		sampling, check
	//bailed before sampling:		lons		• • • • • • • • • • • • • • • • • • • •	Appearance		here:
	e collected unfiltered:		and field acidified:	□YES □	NO			
LABORATORY INFORM	MATION							
	3/1/16 TCE, 2/26/16 P		Laboratory Name:			Ce	ertification No	
	: Values should reflect					Dh. Lood	ma/l	
		_mg/l _/100ml	Nitrite (NO ₂) as N	The state of the s	mg/l		mg/l mg/l	
		-	Nitrate (NO ₃) as N			Zn - Zinc		
Coliform: MF To	itald for highly turbid samples)	_/100ml P	hosphorus: Total as P			Other (Cresify Company	ands and Concentration Units):	
			Orthophosphate				BHC 0.053, beta-BHC 2.6,	
	tal						mma-BHC 0.037Jp,	-
		_units				-	n ketone 0.35, Heptachlor	_
	oc						aphene 6.3 (all ug/L)	_
	ide					epoxide 0.000, Tox	apriene 0.5 (all ug/L)	_
		_mg/l	Chromium: Total			ORGANICS: (by GC, G	C/MC HDI C/	
Grease and O		_mg/l						,
		_mg/l				Report Attached?	nod #. ATTACH LAB REPORT	1.
Sulta Consider Conductor		_mg/l μMhos						
Specific Conductan						VOC Pest & Rinhenvis	, method # <u>8280</u> , method # <u>8081B/8082A</u>	_
(Ammonia Nitrogen; NH ₃	as N; Ammonia Nitrogen, Total)	_mg/l	Mg - Magnesium Mn - Manganese				, method #	
TKN as	s N	mg/l					, method #	
	ms Only (Attach Lab Re						0.001 mg/L VOC Removal	
				AND THE RESIDENCE OF THE PARTY			ing approved methods of analysis by a	
						prisc, ment for knowing violations.		
Garland Hilliard - Dir	rector, Environmental	Remediation		120	1	180/	2/13/17)
The second secon	nt) Name and Title - Please prin	The second control of		Signature of P	ermittee (or	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONICOMPLIANCE REPORT FORM	TORING:		1 1 copy to: DIV		IT & NATURAL RESOURCES NFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (919)	733-3221
FACILITY INFORMATION	Please Print Cle	arly or Type		ERMIT Number:	Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Cor	poration Site		0.17		49 UIC	
Permit Name (if different):			The second secon	PDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City)	(State) (Zip)	County INTO IT		☐ Spray Field	Remediation: Groundy	
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		Rotary Distributor	The state of the s	
Well Location/Site Name:					ump Other:	90
Well Location/Site Name.		140. Of Wells to be sampled.	(from Permit)	— Water course ricat r	ump — other:	
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Info	luent	Date sample collected: 4/28/	16	FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:	in.	pHunits	Temp°C	DRY at
Depth to Water Level:ft. below	measuring point	Screened Interval:	ft. toft.	Spec. Cond.	μMhos	time of sampling,
Measuring Point isft. above		Relative M.P. Elevation:		0.1		check
Volume of water pumped/bailed before sa		gallons		Appearance		here:
Samples for metals were collected unfilted	ered: YES	NO and field acidified: YES	□NO			
LABORATORY INFORMATION	WA DECT	Took Amor	nela a		2 - 4:5 - 4: - N -	
Date sample analyzed: 5/9/16 TCE, 5/3 PARAMETERS NOTE: Values should		Laboratory Name: Test Ame	erica		Certification No	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid sample		Orthophosphate		Other (Specify Compo	ounds and Concentration Units):	
Dissolved Solids: Total	ma/l	Al - Aluminum			J, beta-BHC 2.3, delta-BHC	
pH (when analyzed)		Ba - Barium			C 0.032Jp, Dieldrin 0.33B,	_
TOC		Ca - Calcium			3, Heptachlor epoxide	
Chloride		Cd - Cadmium		0.055pB, Toxaphe	The state of the s	
Arsenic		Chromium: Total				_
Grease and Oils	mg/l	Cu - Copper		ORGANICS: (by GC,	GC/MS, HPLC)	-
Phenol	mg/l	Fe - Iron		(Specify test and me	thod #. ATTACH LAB REPORT.	.)
Sulfate		Hg - Mercury		Report Attached?		
Specific Conductance		K - Potassium			, method # 8260	
		Mg - Magnesium			, method # 8081B/8082A	
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitroge	n, Total)	Mn - Manganese			, method #	the state of the s
TKN as N	mg/l	Ni - Nickel			, method #	
For Remediation Systems Only (Attach		nfluent Total VOCs: <a><0.001				
I certify that, to the best of my knowledge and belief DWQ-certified laboratory. I am aware that there are						
Garland Hilliard - Director, Environ	mental Remediatio	n	-11		2/13/17	
Permittee (or Authorized Agent) Name and Title -			re of Permittee (or A	authorized Agent)	(Date)	

GROUNDWATER QUALITY MON	ITORING:		and 1 copy to:		NFORMATION PROCESSING UNIT	0.733.3224
COMPLIANCE REPORT FORM FACILITY INFORMATION	Please Print Cl	early or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Cor	poration Site				49 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen	NC	County Moore		Lagoon	Remediation: Infiltration	Callen
(City)	(State) (Zip)	County Moore		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Talanhara#, 423 336 4		Rotary Distributor		
Contact Person: Gariarid Filliard		Telephone#: 423.336.4	- di	the state of the s	ump Other:	
Well Location/Site Name:		No. of wells to be sample	(from Permit)	Water Source Heat Pr	ump 🗆 Other.	
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Inf	luent			FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:		pH units	Temp°C	DRY at
Depth to Water Level:ft. below	measuring point	Screened Interval:				time of
Measuring Point isft. above		Relative M.P. Elevation:				sampling, check
Volume of water pumped/bailed before sa		The state of the s				here:
Samples for metals were collected unfilte		□ NO and field acidified: □ YE	s 🗆 NO			
LABORATORY INFORMATION						
Date sample analyzed: 5/25/16 TCE, 5		Laboratory Name: Test A	America		Certification No	
PARAMETERS NOTE: Values should		Nitrite (NO ₂) as N		Dh. Lood		
COD	mg/l		mg/l	Pb - Lead Zn - Zinc	mg/l mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zmc	nig/i	
Coliform: MF Total	/100ml	Phosphorus: Total as P		011 /0 17 0		
		Orthophosphate			ounds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum		TCE 0.73J ug/L		
pH (when analyzed)		Ba - Barium	mg/l			_
TOC		Ca - Calcium				
Chloride		Cd - Cadmium		·		 -
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper		ORGANICS: (by GC,		
Phenol		Fe - Iron			thod #. ATTACH LAB REPORT	.)
Sulfate	mg/l	Hg - Mercury		Report Attached?		
Specific Conductance		K - Potassium			, method # <u>8260</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen	mg/l	Mg - Magnesium			, method # <u>8081B/8082A</u>	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l	-	, method #	
For Remediation Systems Only (Attach	Lab Reports):	Influent Total VOCs: 0.00073	BJ_mg/L Effluent	t Total VOCs:	<0.001 mg/L VOC Remova	1%100
I certify that, to the best of my knowledge and belief						a
DWQ-certified laboratory. I am aware that there are	significant penalties for s	ubmitting false information, including the po	ossibility of fines and impl	risonment for kitowing violations		
Garland Hilliard - Director, Environ	mental Remediation	on	Soll		2/13/1	7
Permittee (or Authorized Agent) Name and Title - I			nature of Permittee (or A	authorized Agent)	(Date)	

GROUNDWATER QUALITY MC		and	1 copy to: DIV		FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919	
FACILITY INFORMATION	Please Print Clear	ly or Type		RMIT Number:	Expiration Date: 05/31/1	
Facility Name: Geigy Chemical C	orporation Site		No.	on-Discharge WQ000994	19 UIC	
Permit Name (if different):			NF	PDES	Other	
Facility Address: Domino Drive			TY	PE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	☐ Remediation: Infiltration	n Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	water
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		☐ Rotary Distributor	☐ Land Application of Slu	dge
Well Location/Site Name:		No. of wells to be sampled: _	from Permit)	☐ Water Source Heat Pu	ımp Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit):	ntiuent			FIELD ANALYSES:	Temp °C	WAS DRY at
Well Depth:ft.		Well Diameter:i		pHunits		time of
Depth to Water Level:ft. bel		Screened Interval:f		0.1		sampling,
Measuring Point isft. abo		Relative M.P. Elevation:	π.			check
Volume of water pumped/bailed before		gallons	Пио	Appearance		here:
Samples for metals were collected unt	iltered: LIYES LI	NO and field acidified: YES	□ NU			
Date sample analyzed: 6/29/16 TCE	, 7/8/16 PEST	Laboratory Name: Test Ame	rica	C	Certification No.	
PARAMETERS NOTE: Values shou						
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total		Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid sai	mples)	Orthophosphate	mg/l	Other (Specify Compo	unds and Concentration Units):	
Dissolved Solids: Total	mg/l	AI - Aluminum	mg/l	Aldrin 0.0479, all	oha-BHC 0.0385, beta-BH	IC
pH (when analyzed)		Ba - Barium	mg/l	1.94, delta-BHC	0.301, gamma-BHC 0.049	<u>8,</u>
TOC		Ca - Calcium	mg/l	4,4'-DDE 0.0885,	Dieldrin 0.284, Endosulfan	11
Chloride	mg/l	Cd - Cadmium	mg/l	0.178, Endrin keto	ne 0.186 (all ug/L)	
Arsenic		Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper		ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol	mg/l	Fe - Iron		(Specify test and me	thod #. ATTACH LAB REPORT	.)
Sulfate		Hg - Mercury	mg/l	Report Attached?	★ Yes (1) □ No (0)	
Specific Conductance	B #1	K - Potassium	mg/l	VOC	, method # <u>8260</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitr	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, method # 8081B/8082A	
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitr	ogen, Total)	Mn - Manganese	mg/l		, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
For RemediationSystemsOnly (Attac		fluent Total VOCs: <a><0.001				
I certify that, to the best of my knowledge and be DWQ-certified laboratory. I am aware that there						а
			1/1/1/	4///	2/12	1,2
Garland Hilliard - Director, Environmental Permittee (or Authorized Agent) Name and Title			e of Permittee (or Al	uthorized Agent)	(Date)	///

GROUNDWATER QUALITY MON	NITORING:		and 1 copy to:	EPARTMENT OF ENVIRONMENT IVISION OF WATER QUALITY-INF	ORMATION PROCESSING UNIT	772 2004
COMPLIANCE REPORT FORM	Please Print Cle	arly or Type			EIGH, NC 27699-1617 Phone: (919 Expiration Date: 05/31/1	
Facility INFORMATION Facility Name: Geigy Chemical Co					9 UIC	
Permit Name (if different):				IPDES	Other	
Facility Address: Domino Drive	BW-W-1-13-17-17-17-17-17-17-17-17-17-17-17-17-17-				RATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore	!'	Lagoon	Remediation: Infiltration	. Collon
(City)	(State) (Zip)	County Woote		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: 423.336.44	179	Rotary Distributor	☐ Land Application of Slu	
Contact Person: Gariand Filliard		No of wells to be sample	od:	Approximate the second	np Other:	
Well Location/Site Name:		No. of wells to be sample	(from Permit)	□ Water Source Heat Fur	np 🗆 Other.	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit): In	fluent			FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter:		pHunits	Temp°C	DRY at time of
Depth to Water Level:ft. below		Screened Interval:				sampling,
Measuring Point isft. abov		Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before s				Appearance		here:
Samples for metals were collected unfil	tered: YES	NO and field acidified: YE	S 🗆 NO			
LABORATORY INFORMATION Date sample analyzed: 7/15/16 TCE,		Laboratory Name:Test A	America	Ce	ertification No	
PARAMETERS NOTE: Values should				2000		
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	The state of the s			
(Note: Use MPN method for highly turbid same	nes)	Orthophosphate	The second state of the se		nds and Concentration Units):	
Dissolved Solids: Total		AI - Aluminum			HC 2.1, delta-BHC 0.37,	
pH (when analyzed)	units	Ba - Barium	mg/l	Company of the compan	ieldrin 0.24p, Endrin ketor	<u>ne</u>
TOC	mg/l	Ca - Calcium	mg/l	0.16 (all ug/L)		
Chloride		Cd - Cadmium	mg/l			
Arsenic	mg/l	Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, G	C/MS, HPLC)	
Phenol	mg/l	Fe - Iron	mg/l		nod #. ATTACH LAB REPORT	Г.)
Sulfate	mg/l	Hg - Mercury	mg/l		¥ Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium		VOC		
Total Ammonia (Ammonia Nitrogen; NH3 as N; Ammonia Nitrog	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, method # <u>8081B/8082A</u>	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attac		Influent Total VOCs: 0.0006			0020 mg/L VOC Remova	
I certify that, to the best of my knowledge and beli DWQ-certified laboratory. I am aware that there a					ing approved methods of analysis by	a
Garland Hilliard - Director, Environ			Alex		2/13	117
Permittee (or Authorized Agent) Name and Title			nature of Permittee (or	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONIT	ORING:		copy to:	PARTMENT OF ENVIRONMENT & NATURAL RESOURCES VISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 17 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	Please Print Clea	arly or Type		ERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Corp	oration Site			on-Discharge WQ0009949 UIC
Permit Name (if different):				PDES Other
Facility Address: Domino Drive				YPE OF PERMITTED OPERATION BEING MONITORED
Aberdeen (Street)	NC	County Moore		☐ Lagoon ☐ Remediation: Infiltration Gallery
(City)	(State) (Zip)			☐ Spray Field
Contact Person: Garland Hilliard		Telephone#:423.336.4479		☐ Rotary Distributor ☐ Land Application of Sludge
Well Location/Site Name:		No. of wells to be sampled:		☐ Water Source Heat Pump ☐ Other:
SAMPLING INFORMATION		(fro	m Permit)	lf WELL
WELL ID NUMBER (from Permit): Influ	ent	Date sample collected: 10/4/16	6	FIELD ANALYSES: WAS
Well Depth:ft.		Well Diameter:in.		pHunits Temp°C DRY at
Depth to Water Level:ft. below r	neasuring point	Screened Interval:ft.		
Measuring Point isft. above I	and surface	Relative M.P. Elevation:	ft.	Odor check
Volume of water pumped/bailed before sam	pling:	gallons		Appearance here:
Samples for metals were collected unfilter	ed: YES	NO and field acidified: YES	□NO	
LABORATORY INFORMATION	0/12/16 DEST	Laboratori Nomo: Tost Ameri	ica	Cortification No.
Date sample analyzed: 10/13/16 TCE, 1 PARAMETERS NOTE: Values should re	eflect dissolved and	Laboratory Name: Test Ameri	ica	Certification No.
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead mg/l
Coliform: MF Fecal		Nitrate (NO ₃) as N		Pb - Leadmg/l Zn - Zincmg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P		
(Note: Use MPN method for highly turbid samples)		Orthophosphate		Other (Specify Compounds and Concentration Units):
Dissolved Solids: Total	mg/l	Al - Aluminum		TCE 0.53J, Aldrin 0.018Jp, alpha-BHC 0.072,
pH (when analyzed)		Ba - Barium		beta-BHC 3.2, delta-BHC 0.46, gamma-BHC
тос		Ca - Calcium		0.083, alpha-Chlordane 0.094, Dieldrin 0.36,
Chloride	mg/l	Cd - Cadmium	mg/l	Endrin ketone 0.22, Heptachlor epoxide
Arsenic	mg/l	Chromium: Total		0.054p, Toxaphene 6.7 (all ug/L)
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, HPLC)
Phenol	mg/l	Fe - Iron		(Specify test and method #. ATTACH LAB REPORT.)
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? X Yes (1) No (0)
Specific Conductance	μMhos	K - Potassium	mg/l	VOC , method # 8260
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen,	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls , method # 8081B/8082A
		Mn - Manganese		, method #
TKN as N	mg/l	Ni - Nickel	mg/l	, method #
For Remediation Systems Only (Attach L			The same of the sa	t Total VOCs: <0.001 mg/L VOC Removal% 100
				ry analytical data was produced using approved methods of analysis by a
DWQ-certified laboratory. I am aware that there are s	significant penalties for sul	omitting false information, including the possibility	ratines and impr	risonment of drawing violations.
Garland Hilliard - Director, Environm			ales	2/13/17
Permittee (or Authorized Agent) Name and Title - Ple	ease print or type	Signature	of Permittee (or A	outhorized Agent) (Date)

GROUNDWATER QUALITY MO	NITORING:	a	and 1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (919	1 733_3224
COMPLIANCE REPORT FORM	Please Print Clea	nrly or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical C	orporation Site				49 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				-	ERATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore			Remediation: Infiltration	Collon
(City)	(State) (Zip)	County Moore		☐ Lagoon☐ Spray Field	Remediation: Ground	The state of the s
Carland Hilliard		T 1 1 1 1 1 1 1 2 3 3 3 6 1 1 1	70	Rotary Distributor	☐ Land Application of Slu	
Contact Person: Garland Hilliard		Telephone#: 423.336.44	1	The second secon	ump Other:	
Well Location/Site Name:		No. of wells to be sample	(from Permit)	□ vvater Source Heat Pt	ump Utner:	
SAMPLING INFORMATION WELL ID NUMBER (from Permit):	Effluent	Date sample collected: 1/2	27/16	FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:	in.	pHunits	Temp°C	DRY at
Depth to Water Level:ft. belo	ow measuring point	Screened Interval:		t. Spec. Cond.		time of sampling.
Measuring Point isft. abo		Relative M.P. Elevation:				check
Volume of water pumped/bailed before						here:
Samples for metals were collected unfi		NO and field acidified: YES	s 🗆 NO			
LABORATORY INFORMATION						
Date sample analyzed: 2/1/16 TCE, 2 PARAMETERS NOTE: Values shou			merica		Certification No	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
	/100ml	Phosphorus: Total as P			g.,	
Coliform: MF Total (Note: Use MPN method for highly turbid san		Orthophosphate		Other (Specify Compo	ounds and Concentration Units):	
				beta-BHC 0.059 u	0	
Dissolved Solids: Total		Al - Aluminum		DCta-D110 0.000 u	g/L	
pH (when analyzed)	units mg/l	Ba - Barium				
TOC		Ca - Calcium		_		
Chloride		Cd - Cadmium Chromium: Total				
Arsenic		Cu - Copper		ORGANICS: (by GC,	GC/MS_HPLC)	
Grease and Oils					thod #. ATTACH LAB REPORT	· x
Phenol	ng/l	Fe - Iron			▼ Yes (1) □ No (0)	.,
SulfateSpecific Conductance	mMhos	Hg - Mercury K - Potassium			, method # _8260	
					, method #8081B 8082	Δ
Total Ammonia (Ammonia Nitrogen; NH3 as N; Ammonia Nitro	mg/l	Mg - Magnesium		The state of the s	, method #	The state of the s
TKN as N		Mn - Manganese Ni - Nickel			, method #	
TKN as N						
For Remediation Systems Only (Attack		nfluent Total VOCs: 0.00093J			<0.001 mg/L VOC Remova	
I certify that, to the best of my knowledge and be						3
DWQ-certified laboratory. I am aware that there	are significant penalties for sub	omitting false information, including the pos	ssibility of lines and im	prisonment for knowing violations.)	,
Garland Hilliard - Director, Enviro	nmental Remediation	1 0	fall V	1000	2/13	117
Permittee (or Authorized Agent) Name and Title			nature of Permittee (or	Authorized Agent)	(Date)	-

GROUNDWATER QUALITY MONITO COMPLIANCE REPORT FORM	RING:		Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INI 1617 MAIL SERVICE CENTER, RAI	F& NATURAL RESOURCES FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919)	733-3221
FACILITY INFORMATION	Please Print Clearly	y or Type		PERMIT Number:	Expiration Date: 05/31/18	3
Facility Name: Geigy Chemical Corpora	ation Site			Non-Discharge WQ000994	19 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	☐ Remediation: Infiltration	Gallery
(City)	itate) (Zip)			☐ Spray Field	Remediation: Groundy	water
Contact Person: Garland Hilliard		Telephone#: 423.336.	4479	☐ Rotary Distributor	☐ Land Application of Slud	lge
Well Location/Site Name:			pled:	☐ Water Source Heat Pu	ımp Other:	
			(from Permit)			If WELL
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Effluer	nt	Date sample collected:	2/19/16	FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter:		pHunits	Temp°C	DRY at
Depth to Water Level:ft. below me	asuring point	Screened Interval:	No. 1 Print Laboratory (1)	the state of the s		time of
Measuring Point isft. above lan		Relative M.P. Elevation:				sampling, check
Volume of water pumped/bailed before sampli		allons		Appearance		here:
Samples for metals were collected unfiltered		IO and field acidified:	YES 🗆 NO			
LABORATORY INFORMATION						
Date sample analyzed: 3/1/16 TCE, 2/26/1			t America	C	ertification No	
PARAMETERS NOTE: Values should refl				50 1 1		
COD	mg/l	Nitrite (NO ₂) as N	mg/l			
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N			mg/i	
Coliform: MF Total (Note: Use MPN method for highly turbid samples)	/100ml	Phosphorus: Total as P				
		Orthophosphate		the second secon	unds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum			AL.	- 1
pH (when analyzed)			mg/l			
тос		The state of the s	mg/l			_
Chloride		Cd - Cadmium				_
Arsenic	mg/I	Chromium: Total				_
Grease and Oils			mg/l			
Phenol			mg/l		thod #. ATTACH LAB REPORT.) 1
Sulfate			mg/l		Yes (1) No (0)	
Specific Conductance	µMhos	K - Potassium			, method # <u>8260</u>	_
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Tot	mg/l	Mg - Magnesium			, method # <u>8081B 8082</u>	
		Mn - Manganese			, method #	_
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attach Lab	Reports): Inf	luent Total VOCs: 0.0007	7J mg/L Efflu	ent Total VOCs:	<0.001 mg/L VOC Removal	100
I certify that, to the best of my knowledge and belief, the		this report is true, accurate, and con	plete, and that the labor	atory chalytical data was produced u	sing approved methods of analysis by a	
DWQ-certified laboratory. I am aware that there are sign	ificant penalties for subm	nitting false information, including the	possibility of fines and i	in prisonment for spewing violations.)	
Garland Hilliard - Director, Environmen	ntal Remediation		XILL	RMX/	2/13	117
Permittee (or Authorized Agent) Name and Title - Pleas		· ·	Signature of Permittee (or Authorized Agent)	(Date)	The state of the s

GROUNDWATER QUALITY MONI	TORING:		Mail original and 1 copy to:		INFORMATION PROCESSING UNIT	
COMPLIANCE REPORT FORM	Please Print C	Searly or Type		1617 MAIL SERVICE CENTER, R	RALEIGH, NC 27699-1617 Phone: (9	
FACILITY INFORMATION		leany or Type			Expiration Date: 05/31	
Facility Name: Geigy Chemical Corp					949 UIC	
Permit Name (if different):			-	NPDES	Other	
Facility Address: Domino Drive					PERATION BEING MONITORE	
Aberdeen	NC (State) (Zip)	County Moore		☐ Lagoon	Remediation: Infiltrat	
(City)	37772			☐ Spray Field	Remediation: Groun	
Contact Person: Garland Hilliard		Telephone#: _423.33	36.4479	Rotary Distributor	The second secon	
Well Location/Site Name:		No. of wells to be sa	ampled:(from Permit)	☐ Water Source Heat F	Pump Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit): Effl	uent			_ FIELD ANALYSES:		WAS DRY at
Well Depth:ft.			r:in.	pHunits		time of
Depth to Water Level:ft. below			l:ft. to	_ft. Spec. Cond	μMhos	sampling,
Measuring Point isft. above	land surface	Relative M.P. Elevation	n:ft.	Odor		check
Volume of water pumped/bailed before sar				Appearance		here:
Samples for metals were collected unfilte	red: YES	NO and field acidified:	YES NO			
LABORATORY INFORMATION	MC DEST	Laboratory Name: To	est America		Cartification No.	
Date sample analyzed: 5/9/16 TCE, 5/3 PARAMETERS NOTE: Values should					Certification No.	
COD	mg/l	Nitrite (NO ₂) as N	mg/	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		- Communication	mg/l	
Coliform: MF Total		Phosphorus: Total as P				
(Note: Use MPN method for highly turbid sample:			mg/		oounds and Concentration Units	۸٠
Disselved Solide: Total	ma/l		mg/	The same desirable and the same	Dieldrin 0.032JB, Endrin k	(5)
Dissolved Solids: Total				0.0041/=!!=/!\	Diciaiii 0.0020B, Eriaiii N	CLOTIC
pH (when analyzed)				· · · · · · · · · · · · · · · · · · ·		
TOC			mg/			
Chloride			mg/			
Arsenic		The second secon	mg/		CC/MC UDI C)	
Grease and Oils			mg/		•	DT \
Phenol			mg/		ethod #. ATTACH LAB REPO	K1.)
Sulfate	mg/l		mg/			
Specific Conductance			mg/		, method # <u>8260</u>	224
Total Ammonia	mg/l		mg/	The same of the sa	, method # <u>8081B 80</u>	The state of the s
			mg/		, method #	
TKN as N			mg/		, method #	
For Remediation Systems Only (Attach		Influent Total VOCs:			<0.001 mg/L VOC Remo	
I certify that, to the best of my knowledge and belief, DWQ-certified laboratory. I am aware that there are						ру а
			-11/	17/1/	/ 2	1,210
Garland Hilliard - Director, Environn Permittee (or Authorized Agent) Name and Title - P		OII	Signature of Permittee	or Authorized Agent)	(Date)	12/1/

GROUNDWATER QUALITY MON COMPLIANCE REPORT FORM	IITORING:		1 copy to:		IF & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone:	
FACILITY INFORMATION	Please Print Cle	arly or Type		ERMIT Number:	Expiration Date: 05/3	
Facility Name: Geigy Chemical Co	rporation Site		27.0		49 UIC	
Permit Name (if different):				PDES PDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITOR	FD
Aberdeen (Street)	NC	County Moore		Lagoon	Remediation: Infiltra	
(City)	(State) (Zip)			☐ Spray Field	Remediation: Grou	Mario Paris Committee Comm
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		☐ Rotary Distributor	the state of the s	
Well Location/Site Name:		No. of wells to be sampled:			ump Other:	
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Ef	fluent	Date sample collected: 5/17/		FIELD ANALYSES:	*	If WELL WAS
Well Depth:ft.		Well Diameter:	The state of the s	pHunits	Temp°C	DRY at
Depth to Water Level:ft. below	v measuring point	Screened Interval:				time of
Measuring Point isft. abov		Relative M.P. Elevation:		Odor		sampling, check
Volume of water pumped/bailed before sa		gallons		Appearance		here:
Samples for metals were collected unfilt	ered: YES	NO and field acidified: YES	□NO			
LABORATORY INFORMATION		T 1.4				
Date sample analyzed: 5/25/16 TCE, SPARAMETERS NOTE: Values should		Laboratory Name: Test Ame	erica		Certification No.	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	The state of the s			
(Note: Use MPN method for highly turbid samp		Orthophosphate		Other (Specify Compo	ounds and Concentration Uni	ts):
Dissolved Solids: Total	ma/l	Al - Aluminum			delta-BHC 0.017J, ga	
pH (when analyzed)		Ba - Barium			Jp, Dieldrin 0.076, E	
тос		Ca - Calcium		ketone 0.043J, To	xaphene 1.1J (all ug/L)	
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper		ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol		Fe - Iron		(Specify test and me	thod #. ATTACH LAB REPO	ORT.)
Sulfate		Hg - Mercury		Report Attached?	▼ Yes (1) □ No (0)
Specific Conductance		K - Potassium	mg/l	VOC	, method # <u>8260</u>	
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrog		Mg - Magnesium	mg/l		, method # <u>8081B 8</u>	
		Mn - Manganese	mg/l		, method #	
TKN as N		Ni - Nickel			, method #	
For Remediation Systems Only (Attack		Influent Total VOCs:0.00073J				
I certify that, to the best of my knowledge and belied DWQ-certified laboratory. I am aware that there as						s by a
Garland Hilliard - Director, Enviror	mental Remediation	9	46/1	TAX	1 2/2	3/17
Permittee (or Authorized Agent) Name and Title -		Signatu	re of Permittee (or)	authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITOR	ING:		Mail origina and 1 copy to	DIVISION OF WATER QU	RONMENT & NATURAL RES UALITY-INFORMATION PRO-	CESSING UNIT	
COMPLIANCE REPORT FORM	Please Print Clearly	or Type		1617 MAIL SERVICE CE	NTER, RALEIGH, NC 27699-		
Facility Name: Geigy Chemical Corporat		or type		PERMIT Number:	Expiration	Date: 03/3 1/10	
					0009949 UIC		
Permit Name (if different):				NPDES			
Facility Address: Domino Drive	VIO.				ED OPERATION BEING		
Aberdeen (Si(99)) (Sia	NC	County Moore		Lagoon		liation: Infiltration	
(-4)	*		4470	☐ Spray Field		liation: Groundw	
Contact Person: Garland Hilliard		Telephone#: 423.336	.4479	Rotary Distrib		pplication of Slud	ge
Well Location/Site Name:		No. of wells to be san	npled:	☐ Water Source	Heat Pump Other:		
SAMPLING INFORMATION			45				If WELL
WELL ID NUMBER (from Permit): Effluent		Date sample collected:		_ FIELD ANALY	YSES:		WAS
Well Depth:ft.		Well Diameter:		pH			DRY at time of
Depth to Water Level:ft. below meas	suring point	Screened Interval:	ft. to	_ft. Spec. Cond.		μMhos	sampling.
Measuring Point isft. above land	surface	Relative M.P. Elevation:	ft.	Odor			check
Volume of water pumped/bailed before sampling				Appearance			here:
Samples for metals were collected unfiltered:	☐YES ☐ N	O and field acidified:	YES NO				
LABORATORY INFORMATION	e DECT	Laborator Name Tos	t America		Cartification No.		
Date sample analyzed: 6/29/16 TCE, 7/11/1 PARAMETERS NOTE: Values should reflect		Laboratory Name: Tes	St Afficilica		Certification No.		
COD	mg/l	Nitrite (NO ₂) as N	mg/	/I Pb - Lead	d	mg/l	
Coliform: MF Fecal	/100ml		mg/	/I Zn - Zin		mg/l	
Coliform: MF Total		Phosphorus: Total as P					
(Note: Use MPN method for highly turbid samples)		Orthophosphate			y Compounds and Conce	entration Units):	
Dissolved Solids: Total	ma/l	Al - Aluminum			0.0849, Dieldrin 0.030		
pH (when analyzed)			mg/				
TOC			mg/				_
Chloride		Cd - Cadmium					
Arsenic		Chromium: Total					
Grease and Oils			mg/		(by GC, GC/MS, HPLC)		
Phenol			mg/		and method #. ATTACI	H LAB REPORT.)
Sulfate	mg/l		mg/		hed? X Yes (1)		
Specific Conductance	µMhos	K - Potassium			, method #		
Total Ammonia	mg/l	Mg - Magnesium			nenyls , method #		Ā
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)		Mn - Manganese			, method #		
TKN as N	mg/l	Ni - Nickel			, method #		_
For Remediation Systems Only(Attach Lab R		uent Total VOCs: <a><0.00		uent Total VOCs:		VOC Removals	-
I certify that, to the best of my knowledge and belief, the in DWQ-certified laboratory. I am aware that there are signifi						nods of analysis by a	
			1/4/	MAN	/)	2/10	1.2
Garland Hilliard - Director, Environment Permittee (or Authorized Agent) Name and Title - Please	CONTROL OF THE PARTY OF THE PAR		Signature of Permittee	(or Authorized Agent)		(Date)	
reminice (or Authorized Agent) Name and Title - Please	print or type		digitature of Fatilities	(OI TANGINGING MUCINI)		(Date)	

GROUNDWATER QUALITY MO			and 1 copy to:		NFORMATION PROCESSING UNIT	10) 722 0004
COMPLIANCE REPORT FORM	Please Print Cle	early or Type			ALEIGH, NC 27699-1617 Phone: (9:	
FACILITY INFORMATION Facility Name: Geigy Chemical C		any or typo		PERMIT Number:		
TOTAL TABLE AND TOTAL TO					49 UIC	
Permit Name (if different):				NPDES	Other	and the second second
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen (Street)	NC (State) (Zip)	County Moore		☐ Lagoon	☐ Remediation: Infiltration	
		400 000 4		☐ Spray Field	Remediation: Groun	
Contact Person: Garland Hilliard		Telephone#: 423.336.4		Rotary Distributor		
Well Location/Site Name:		No. of wells to be samp	oled:	☐ Water Source Heat P	ump Other:	
SAMPLING INFORMATION WELL ID NUMBER (from Permit):	Effluent			FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:		pH units	Temp°C	DRY at
Depth to Water Level:ft. bel	ow measuring point	Screened Interval:	The state of the s	The state of the s		time of
Measuring Point isft. abo		Relative M.P. Elevation:				sampling, check
Volume of water pumped/bailed before						here:
Samples for metals were collected unf		NO and field acidified:	ES 🗆 NO			
LABORATORY INFORMATION						
Date sample analyzed: 7/15/16 TCE		Laboratory Name: Test	America		Certification No	
PARAMETERS NOTE: Values shou				B		
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total (Note: Use MPN method for highly turbid san	/100ml	Phosphorus: Total as P				
		Orthophosphate	A MARINE TO THE RESERVE TO THE RESER		ounds and Concentration Units)	•1
Dissolved Solids: Total		Al - Aluminum		TCE, PEST - all B	QL	
pH (when analyzed)	units	Ba - Barium				
тос	mg/l	Ca - Calcium				
Chloride	mg/l	Cd - Cadmium				
Arsenic		Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and me	thod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?	▼ Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium	mg/l	VOC	, method # <u>8260</u>	
Total Ammonia	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, method # <u>8081B 808</u>	2A_
(Ammonia Nitrogen; NH₃as N; Ammonia Nitro	ogen, Total)	Mn - Manganese	mg/l		, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Atta	ch Lab Reports):	Influent Total VOCs: 0.0006	66J mg/L Efflue	nt Total VOCs: <0.1	00020 mg/L VOC Remov	al% 100
I certify that, to the best of my knowledge and be						
DWQ-certified laboratory. I am aware that there	are significant penalties for su	bmitting false information, including the p	possibility of fines and im	prisonment for knowing violations		
Garland Hilliard - Director, Enviro	onmental Remediatio	n	Mall		2/12	1/1
Permittee (or Authorized Agent) Name and Title			ignature of Permittee (or	Authorized Agent)	(Date)	

GW-59

Rev. 1/2007

GROUNDWATER QUALITY I			d 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INI 617 MAIL SERVICE CENTER, RAI		733-3221
FACILITY INFORMATION	Please Print Clearly	y or Type			Expiration Date: 05/31/18	
	I Corporation Site			Non-Discharge WQ000994	9 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				W. E. W. A. 1992	RATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City)	(State) (Zip)	County Moore		☐ Spray Field	Remediation: Groundy	Section 1997
Contact Person: Garland Hilliard	l	Telephone#:423.336.4479	9	Rotary Distributor	☐ Land Application of Slud	
Well Location/Site Name:		No. of wells to be sampled:		☐ Water Source Heat Pu	mp Other:	
SAMPLING INFORMATION			(from Permit)			If WELL
WELL ID NUMBER (from Permit):	Effluent	Date sample collected: 10/4/	/16	FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter:	in.	pHunits	Temp°C	DRY at time of
Depth to Water Level:ft.	below measuring point	Screened Interval:	ft. to1	t. Spec. Cond.	μMhos	sampling,
Measuring Point isft.	above land surface	Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before		allons		Appearance		here:
Samples for metals were collected	unfiltered: YES N	O and field acidified: YES	□NO			
LABORATORY INFORMATION	TOE 404040 DECT	Took Am.	orion		-Alti-AlAl-	
Date sample analyzed: 10/13/16 PARAMETERS NOTE: Values s		Laboratory Name: Test Amo	erica		ertification No	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total		Phosphorus: Total as P				
(Note: Use MPN method for highly turbi	d samples)	Orthophosphate		Other (Specify Compo	unds and Concentration Units):	
Dissolved Solids: Total	ma/l	AI - Aluminum			Ita-BHC 0.017Jp, alpha-	
pH (when analyzed)		Ba - Barium			gamma-Chlordane 0.013J,	_
TOC		Ca - Calcium		Dieldrin 0.074, End		
	mg/l	Cd - Cadmium		Toxaphene 1.1J (a	Control of the Contro	_
		Chromium: Total				_
Arsenic Grease and Oils	mg/l	Cu - Copper		ORGANICS: (by GC, C	GC/MS. HPLC)	_
Phenol	mg/l	Fe - Iron			hod #. ATTACH LAB REPORT.	3
		Hg - Mercury		The state of the s	▼ Yes (1) □ No (0)	''
Sulfate Specific Conductance		K - Potassium		The state of the s	, method # <u>8260</u>	
		Mg - Magnesium			, method # 8081B 8082	<u>A</u>
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia	Nitrogen, Total)	Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel			, method #	_
For Remediation Systems Only (A		luent Total VOCs: 0.00053J	mg/L Efflue	nt Total VOCs:<0	0.001 mg/L VOC Removal	% 100
I certify that, to the best of my knowledge an DWQ-certified laboratory. I am aware that the	d belief, the information submitted in	this report is true, accurate, and complete,	and that the lobora	tory analytical data was produced u		
Garland Hilliard - Director, En			LACK	MIX.	2/13/17	7
Permittee (or Authorized Agent) Name and	Title - Please print or type	Signatu	ure of Permittee (or	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		and 1 conv to:	DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 7	33-3221
FACILITY INFORMATION Please Print Cl.	early or Type		PERMIT Number: Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Corporation Site			Non-Discharge WQ0009949 UIC	
Permit Name (if different):			NPDES Other	
Facility Address: Domino Drive			TYPE OF PERMITTED OPERATION BEING MONITORED	
Aberdeen (Sigest) NC	County Moore		☐ Lagoon ☐ Remediation: Infiltration G	Sallery
(City) (State) (Zip)	County Missis		☐ Spray Field Spray Field	
Contact Person: Garland Hilliard	Telephone#: _423.336.	4479	Rotary Distributor Land Application of Sludg	
Well Location/Site Name:	No of wells to be same	nled:	☐ Water Source Heat Pump ☐ Other:	
vveii Location/Oite Name.	140. Of Wells to be sain	(from Permit)	— water course reals ump — other.	
SAMPLING INFORMATION		4/07/40		If WELL
WELL ID NUMBER (from Permit): Carbon A-1	Date sample collected: _		FIELD ANALYSES:	WAS DRY at
Well Depth:ft.	Well Diameter: _		pHunits Temp°C	time of
Depth to Water Level:ft. below measuring point	Screened Interval: _	ft. tof	ft. Spec. CondµMhos	sampling
Measuring Point isft. above land surface	Relative M.P. Elevation: _	ft.	Odor	check
Volume of water pumped/bailed before sampling:		_	Appearance	here:
	NO and field acidified:	YES NO		
LABORATORY INFORMATION Date sample analyzed: 2/1/16 TCE, 2/2/16 PEST	Laboratory Name: Test	America	Certification No	
PARAMETERS NOTE: Values should reflect dissolved an		America	Certification No.	
COD mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead mg/l	
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead mg/l Zn - Zinc mg/l	
Coliform: MF Total /100ml	Phosphorus: Total as P			
(Note: Use MPN method for highly turbid samples)	Orthophosphate		Other (Specify Compounds and Concentration Units):	
Dissolved Solids: Totalmg/l	Al - Aluminum	The state of the s	TCE, PEST - all BQL	
pH (when analyzed)units		mg/l	102,1201 411042	-
TOCmg/l	Ca - Calcium			-
	Cd - Cadmium			-
Chloridemg/l	Chromium: Total			-
Arsenicmg/l Grease and Oilsmg/l		mg/l	ORGANICS: (by GC, GC/MS, HPLC)	-
			(Specify test and method #. ATTACH LAB REPORT.)	
Phenolmg/l Sulfate mg/l		mg/l	Report Attached? X Yes (1) No (0)	
	Hg - Mercury		VOC , method # 8260	
	K - Potassium		Pest & Biphenyls , method # 8081B 8082A	_
Total Ammoniamg/l (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Total)	Mg - Magnesium		And the second s	
	Mn - Manganese Ni - Nickel		, method #, method #	-
TKN as Nmg/l				-
For Remediation Systems Only (Attach Lab Reports):	Influent Total VOCs: 0.0009	3J mg/L Efflue	ent Total VOCs:	

GROUNDWATER QUALITY MOI	NITORING:		Mail original and 1 copy to:		NFORMATION PROCESSING UNIT	
COMPLIANCE REPORT FORM	Please Print C	learly or Type			ALEIGH, NC 27699-1617 Phone: (91	•
Facility Name: Geigy Chemical Co		ically of Type			Expiration Date: 05/31/	
					49 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive	NO		and the same of th		ERATION BEING MONITORED	
Aberdeen (Street)	NC (State) (Zip)	County Moore		Lagoon	Remediation: Infiltratio	
	200			☐ Spray Field	Remediation: Ground	
		Telephone#: 423.336.		Rotary Distributor	Land Application of Slu	
Well Location/Site Name:		No. of wells to be same	pled:(from Permit)	☐ Water Source Heat P	ump Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit): C	arbon A-2	Date sample collected:		FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter: _		pHunits		DRY at time of
Depth to Water Level:ft. belo	w measuring point	Screened Interval: _	ft. to	ft. Spec. Cond.	μMhos	sampling,
Measuring Point isft. above	ve land surface	Relative M.P. Elevation: _	ft.	Odor		check
Volume of water pumped/bailed before s				Appearance		here:
Samples for metals were collected unfil	Itered: YES	NO and field acidified:	YES NO			
LABORATORY INFORMATION	VOCAC DECT	Laboratoro Marco. Toot	America		0 - 4/5 - 4/ N-	
Date sample analyzed: 3/1/16 TCE, 2 PARAMETERS NOTE: Values shoul		Laboratory Name: Test	America		Certification No	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l		mg/l	
Coliform: MF Total		Phosphorus: Total as P				
(Note: Use MPN method for highly turbid same					ounds and Concentration Units):	
		Orthophosphate			(a) - 1	
Dissolved Solids: Total		AI - Aluminum			JQL	
pH (when analyzed)			mg/l			
TOC		Ca - Calcium				
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total			00440 1151 0)	
Grease and Oils			mg/l		Description of the comment of the co	
Phenol			mg/l		thod #. ATTACH LAB REPOR	1.)
Sulfate	mg/l	Hg - Mercury			The state of the s	
Specific Conductance		K - Potassium		The second secon	, method # <u>8260</u>	2.4
Total Ammonia	mg/l	Mg - Magnesium		· · · · · · · · · · · · · · · · · · ·	, method # <u>8081B 8082</u>	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attac	h Lab Reports):	Influent Total VOCs: 0.0007	7J mg/L Efflu	ent Total VOCs:<0	0.001 mg/L VOC Remova	al%100
I certify that, to the best of my knowledge and beli						
DWQ-certified laboratory. I am aware that there a	are significant penalties for s	submitting false information, including the	possibility of fines and it	reprisonment for knowing violations	,	
Garland Hilliard - Director, Environ	nmental Remediation	on	May	ANS	2/1	3/17
Permittee (or Authorized Agent) Name and Title			Signature of Permittee (c	r Authorized Agent)	(Date)	

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM	NITORING:	а	nd 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INI 1617 MAIL SERVICE CENTER, RAI		733-3221
FACILITY INFORMATION	Please Print Clear	dy or Type			Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Co	orporation Site		110	Non-Discharge WQ000994	9 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive					RATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City)	(State) (Zip)	County Interior		☐ Spray Field	Remediation: Groundy	
Contact Person: Garland Hilliard		Telephone#: 423.336.447	'9	Rotary Distributor	☐ Land Application of Slud	
Well Location/Site Name:			And the second of the second o	The second secon	mp Other:	90
SAMPLING INFORMATION WELL ID NUMBER (from Permit):	Carbon A-1	Date sample collected: 4/2		FIELD ANALYSES:		If WELL WAS
Well Depth:ft.		Well Diameter:			Temp°C	DRY at
Depth to Water Level:ft. belo	w measuring point	Screened Interval:				time of
Measuring Point isft. abo		Relative M.P. Elevation:				sampling, check
Volume of water pumped/bailed before s		gallons		Appearance		here:
Samples for metals were collected unfi		NO and field acidified: YES	i □ NO			
LABORATORY INFORMATION Date sample analyzed: 5/9/16 TCE, 5	5/3/16 PEST	Laboratory Name: Test An		С	ertification No	
PARAMETERS NOTE: Values should				20.00		
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal		Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
		Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum		TCE, PEST - all BO	λΓ	_
pH (when analyzed)		Ba - Barium				_
TOC		Ca - Calcium				_
Chloride		Cd - Cadmium				_
Arsenic	mg/l	Chromium: Total		·		_
Grease and Oils	mg/l	Cu - Copper		ORGANICS: (by GC, G		
Phenol		Fe - Iron			hod #. ATTACH LAB REPORT.)
Sulfate		Hg - Mercury			▼ Yes (1) □ No (0)	
Specific Conductance		K - Potassium		VOC		
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitro	mg/l	Mg - Magnesium			, method # <u>8081B 8082</u> A	
		Mn - Manganese			, method #	_
TKN as N		Ni - Nickel				
For Remediation Systems Only (Attac		fluent Total VOCs: <a><0.001				
I certify that, to the best of my knowledge and bel DWQ-certified laboratory. I am aware that there a					sing approved methods of analysis by a	
Garland Hilliard - Director, Enviro	nmental Remediation		Yell	XIII	2/13	1,7
Permittee (or Authorized Agent) Name and Title	- Please print or type	Signa	ature of Permittee (or	-Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONICOMPLIANCE REPORT FORM	TORING:		Mail original and 1 copy to:	DIVISION OF WATER QUALIT	MENT & NATURAL RESOURCES IY-INFORMATION PROCESSING UNIT R, RALEIGH, NC 27699-1617 Phone: (5	919) 733-3221
FACILITY INFORMATION	Please Print Cle	arly or Type			Expiration Date: 05/31	
Facility Name: Geigy Chemical Cor	poration Site				9949 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED	OPERATION BEING MONITORE	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	☐ Remediation: Infiltrat	ion Gallery
(City)	(State) (Zip)		-	☐ Spray Field	Remediation: Groun	ndwater
Contact Person: Garland Hilliard		Telephone#: 423.336.	4479	☐ Rotary Distributor	☐ Land Application of S	ludge
Well Location/Site Name:		No. of wells to be same	pled:	☐ Water Source Hea	at Pump Other:	
	Wheeler and the second second		(from Permit)			If WELL
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Ca	rbon A-2	_ Date sample collected:	5/17/16	FIELD ANALYSE	S:	WAS
Well Depth: ft.		Well Diameter:		• A CONTRACTOR OF THE CONTRACT	its Temp°C	DRY at
Depth to Water Level:ft. below	measuring point	Screened Interval:			μMhos	time of
Measuring Point isft. above		Relative M.P. Elevation:				sampling, check
Volume of water pumped/bailed before sa		gallons				here:
Samples for metals were collected unfilt e		NO and field acidified:	YES NO			
LABORATORY INFORMATION						
Date sample analyzed: <u>5/25/16 TCE, 5</u> PARAMETERS NOTE: Values should		Laboratory Name: Tes	t America		Certification No.	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph - I ead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid sample		Orthophosphate			mpounds and Concentration Units	۵٠
Dissolved Solids: Total		Al - Aluminum	The state of the s	the second second second second second	5J, Dieldrin 0.0083J, Endrin	·)·
pH (when analyzed)		Ba - Barium		Latera 0.007E		
TOC		Ca - Calcium	mg/l	The state of the s		
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils	mg/l		mg/l		GC, GC/MS, HPLC)	
Phenol			mg/l		method #. ATTACH LAB REPO	RT.)
Sulfate			mg/l		? X Yes (1) No (0)	
Specific Conductance	μMhos	K - Potassium			, method # 8260	
Total Ammonia	ma/l	Mg - Magnesium		The second state of the se	/ls, method # _8081B 808	82A
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitroge	n, Total)	Mn - Manganese			, method #	
TKN as N	mg/l		mg/l		, method #	
For Remediation Systems Only (Attach					<0.001 mg/L VOC Remo	
I certify that, to the best of my knowledge and belief						by a
			1//	1/1/	/ 01	1-1-2
Garland Hilliard - Director, Environ		<u>n</u> (Signature of Permittee (c	yee	(Date)	3/1/
Permittee (or Authorized Agent) Name and Title -	riease print or type		Signature of Permittee (or Authorized Adent)	(Date)	

A STATE OF THE REAL PROPERTY OF THE PARTY OF	ER QUALITY MO	NITORING:		nd 1 copy to:	DIVISION OF WATER QUALITY-INF		a) 733_3221
		Please Print Clear	ty or Type			Expiration Date: 05/31/1	
FACILITY INFORM	Geigy Chemical C		2.50 (200			9 UIC	
		orporation oile			NPDES		
Permit Name (if dif						Other	
Facility Address:	(Street)	NO	· Maria			RATION BEING MONITORED	0.11
Aberdeen (City)	(3,4737)	NC (State) (Zip)	County Moore		Lagoon	Remediation: Infiltration	
	0 1 11000 1	,,	400 000 447		Spray Field	Remediation: Ground	
Contact Person:			Telephone#: 423.336.447		Rotary Distributor	And the second s	idge
Well Location/Site	Name:		No. of wells to be sampled	(from Permit)	☐ Water Source Heat Pu	mp Other:	
SAMPLING INFOR	RMATION	- Augus					If WELL
WELL ID NUMBER	R (from Permit):	Carbon A-2			FIELD ANALYSES:		WAS
Well Depth:	ft.		Well Diameter:	_in.	pHunits	Temp°C	DRY at time of
Depth to Water Lev	vel:ft. bel	ow measuring point	Screened Interval:	_ft. to1	ft. Spec. Cond.	μMhos	sampling,
Measuring Point is	ft. abo	ove land surface	Relative M.P. Elevation:	ft.	Odor		check
	umped/bailed before		gallons		Appearance		here:
Samples for metal	s were collected unf	iltered: YES	NO and field acidified: YES	□NO			
LABORATORY IN						er e N	
	zed: 6/29/16 TCE		Laboratory Name: Test An	nerica	C	ertification No	
PARAMETERS	COD	mg/l	colloidal concentrations. Nitrite (NO ₂) as N	mg/l	Ph - Lead	ma/l	
Coliform: N	MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l mg/l	
					Z11 - Z1110		
	MF Total N method for highly turbid sai	/100ml	Phosphorus: Total as P		Other (Coesif : Coesis	and and Consententian Heital.	
			Orthophosphate			unds and Concentration Units):	
	ds: Total		Al - Aluminum		TCE, PEST - all BC	¥L	
pH (when a	nalyzed)	units	Ba - Barium				
	TOC		Ca - Calcium				
	Chloride		Cd - Cadmium				
	Arsenic	mg/l	Chromium: Total				_
Grease	and Oils		Cu - Copper		ORGANICS: (by GC, G		
	Phenol	mg/l	Fe - Iron	mg/l		hod #. ATTACH LAB REPORT	Г.)
	Sulfate		Hg - Mercury		The second secon	▼ Yes (1) □ No (0)	
Specific Cond	ductance	μMhos	K - Potassium		VOC		
	mmonia	mg/l	Mg - Magnesium			, method # <u>8081B 8082</u>	
	gen; NH ₃ as N; Ammonia Nitr		Mn - Manganese			, method #	
Т	TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
	Systems Only (Atta	Control of the Contro	fluent Total VOCs: <0.001				
			this report is true, accurate, and complete			sing approved methods of analysis by	а
DWQ-certified laborato	ory. I am aware that there	are significant penalties for sub-	mitting false information, including the poss	sibility of fine's and in	aprison tient for knowing violations.		1_
Garland Hilliard	d - Director, Enviro	onmental Remediation		X/al/	VIIIE /	2/13/	117
Permittee (or Authoriz	zed Agent) Name and Title	e - Please print or type	Signa	ture of Permittee (or	r Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONI COMPLIANCE REPORT FORM	TORING:	а	nd 1 copy to:		NFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (91	9) 733-3221
FACILITY INFORMATION	Please Print Cl	learly or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Corp	poration Site				49 UIC	
Permit Name (if different):				IPDES	Other	
Facility Address: Domino Drive				YPE OF PERMITTED OPI	ERATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon	Remediation: Infiltratio	
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	Contract to the second
Contact Person: Garland Hilliard		Telephone#: 423.336.447	9	☐ Rotary Distributor	☐ Land Application of Slu	
Well Location/Site Name:					ump Other:	
			(from Permit)			
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Ca	rhon A-1	Date sample collected: 7/1	2/16	FIELD ANALYSES:		If WELL WAS
Well Depth:ft.	10011711	Well Diameter:		pHunits	Temp°C	DRY at
Depth to Water Level:ft. below	measuring point	Screened Interval:			Tomp.	time of
Measuring Point isft. above		Relative M.P. Elevation:				sampling,
Volume of water pumped/bailed before sar		The second state of the se	IL.			check here:
Samples for metals were collected unfilte		gallons ☐ NO and field acidified: ☐ YES	. □NO	Appearance		
LABORATORY INFORMATION	ieu. 🗆 ieu	110 and held acidined.			*	-
Date sample analyzed: 7/15/16 TCE, 7/	/19/16 PEST	Laboratory Name: Test Ar	merica		Certification No	
PARAMETERS NOTE: Values should	reflect dissolved ar					
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	The second secon			
(Note: Use MPN method for highly turbid sample	s)	Orthophosphate	mg/l		ounds and Concentration Units):	
Dissolved Solids: Total	the second secon	AI - Aluminum		TCE, PEST - all E	BQL	
pH (when analyzed)	units	Ba - Barium	mg/l			
TOC	mg/l	Ca - Calcium	mg/l			
Chloride	mg/l	Cd - Cadmium	mg/l			
Arsenic		Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol		Fe - Iron	mg/l		ethod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?		
Specific Conductance	μMhos	K - Potassium	mg/l		, method # <u>8260</u>	
Total Ammonia	mg/l	Mg - Magnesium	mg/l	Pest & Biphenyls	, method # <u>8081B 8082</u>	2A_
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitroger	i, Total)	Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	_
For Remediation Systems Only (Attach	The same of the sa	Influent Total VOCs: 0.00066J		nt Total VOCs: <a><0.00		
I certify that, to the best of my knowledge and belief, DWQ-certified laboratory. I am aware that there are						а
Garland Hilliard - Director, Environr			XIII		2/13/	17
Permittee (or Authorized Agent) Name and Title - F		Signa	ature of Permittee (or	Authorized Agent)	(Date)	

ermittee (or Authorized Agent) Name and Title - Please print or t

GROUNDWATER QUALITY MO	NITORING:		Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-32	224
COMPLIANCE REPORT FORM	Please Print Clea	arly or Type		PERMIT Number: Expiration Date: 05/31/18	.21
Facility INFORMATION Facility Name: Geigy Chemical Co				Non-Discharge WQ0009949 UIC	
Permit Name (if different):				NPDES Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OPERATION BEING MONITORED	
Aberdeen (Street)	NC	County Moore		☐ Lagoon ☐ Remediation: Infiltration Galler	n.
(City)	(State) (Zip)	County Woote		☐ Spray Field	
Garland Hilliard		T-1 4. 123 336	4470	Rotary Distributor Land Application of Sludge	
Contact Person: Garland Hilliard		Telephone#: _423.336.	-1-1-3	☐ Water Source Heat Pump ☐ Other:	
Well Location/Site Name:		No. of wells to be sam	(from Permit)	□ vvater Source Heat Pump □ Other:	
SAMPLING INFORMATION				lf W	VELL
WELL ID NUMBER (from Permit):	Carbon A-1	Date sample collected: _	10/4/16	_ FIELD ANALYSES: WA	
Well Depth:ft.		Well Diameter: _	in.	priunits remp	Y at e of
Depth to Water Level:ft. belo	w measuring point	Screened Interval: _	ft. to	ff Spec Cond LIVINOS I	npling,
Measuring Point isft. abo	ve land surface	Relative M.P. Elevation: _	ft.	Odor che	
Volume of water pumped/bailed before s	sampling:	gallons		Appearance here	e:
Samples for metals were collected unfi	Itered: YES	NO and field acidified:	res 🗆 no		
LABORATORY INFORMATION Date sample analyzed: 10/13/16 TCE		Laboratory Name: Test	America	Certification No	
PARAMETERS NOTE: Values should					
COD	mg/l	Nitrite (NO ₂) as N	mg/		
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/		
Coliform: MF Total	/100ml	Phosphorus: Total as P			
	**************************************	Orthophosphate	I and the second		
Dissolved Solids: Total		Al - Aluminum	mg/		
pH (when analyzed)	units	Ba - Barium	mg/	ketone 0.010Jp (all ug/L)	
TOC	mg/l	Ca - Calcium	mg/	1	
Chloride		Cd - Cadmium	mg/	· ·	
Arsenic	mg/l	Chromium: Total	mg/	<u></u>	
Grease and Oils	mg/l	Cu - Copper	mg/	ORGANICS: (by GC, GC/MS, HPLC)	
Phenol	mg/l	Fe - Iron	mg/	(Specify test and method #. ATTACH LAB REPORT.)	
Sulfate	mg/l	Hg - Mercury	mg/		
Specific Conductance	μMhos	K - Potassium	mg/	/I <u>VOC</u> , method # <u>8260</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitro		Mg - Magnesium	mg/	Pest & Biphenyls , method # 8081B 8082A	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitro	gen, Total)	Mn - Manganese		/l, method #	
TKN as N	mg/l	Ni - Nickel	mg/	/I, method #	
For Remediation Systems Only (Attack				uent Total VOCs: <0.001 mg/L VOC Removal%	100
I certify that, to the best of my knowledge and bel DWQ-certified laboratory. I am aware that there a					
Garland Hilliard - Director, Enviro	nmental Remediation	n	Tholes	2/13/17	
Permittee (or Authorized Agent) Name and Title	- Please print or type		Signature of Permittee ((or Authorized Agent) (Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		1 copy to:		T & NATURAL RESOURCES FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919)	733-3224
FACILITY INFORMATION Please Print Clearly	y or Type			Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Corporation Site	•			19 UIC	
			PDES	Other	
Permit Name (if different): Facility Address: Domino Drive				RATION BEING MONITORED	**********
Aberdeen (Street) NC	County Moore		Lagoon	Remediation: Infiltration	Gallery
(City) (State) (Zip)	County IVICOTE		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard	T-lh# 422 336 4470	1	Rotary Distributor	☐ Land Application of Sluce	
Contact Person: Garland Filliard	Telephone#: 423.336.4479		The state of the s	Imp Other:	
Well Location/Site Name:	No. of wells to be sampled.	om Permit)	Water Source Heat Pu	imp = Other	
SAMPLING INFORMATION		_			If WELL
WELL ID NUMBER (from Permit): Carbon B-2	Date sample collected: 1/27/10		FIELD ANALYSES:		WAS
Well Depth:ft.	Well Diameter:in		pHunits	Temp°C	DRY at time of
Depth to Water Level:ft. below measuring point	Screened Interval:ft.	. toft.	Spec. Cond.	μMhos	sampling,
Measuring Point isft. above land surface	Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before sampling:g			Appearance		here:
	IO and field acidified: YES	□NO			
LABORATORY INFORMATION Date sample analyzed: 2/1/16 TCE, 2/2/16 PEST	Laboratory Name: Test Amer	rica	C	Certification No	
PARAMETERS NOTE: Values should reflect dissolved and					
COD mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Total /100ml	Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)	Orthophosphate		Other (Specify Compo	unds and Concentration Units):	
Dissolved Solids: Totalmg/l	Al - Aluminum		TCE, PEST - all Bo	QL	
pH (when analyzed)units	Ba - Barium				
TOCmg/l	Ca - Calcium				
Chloridemg/l	Cd - Cadmium				
Arsenicmg/l	Chromium: Total				
Grease and Oilsmg/l	Cu - Copper		ORGANICS: (by GC, C	GC/MS, HPLC)	
Phenolmg/l	Fe - Iron		(Specify test and met	thod #. ATTACH LAB REPORT.	.)
Sulfatemg/l	Hg - Mercury		Report Attached?		
Specific ConductanceµMhos	K - Potassium			, method # <u>8260</u>	
	Mg - Magnesium			method # 8081B 8082	Ą
Total Ammoniamg/l (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	
TKN as Nmg/l	Ni - Nickel			, method #	
	fluent Total VOCs: 0.00093J_m			0.001 mg/L VOC Removal	
I certify that, to the best of my knowledge and belief, the information submitted in DWQ-certified laboratory. I am aware that there are significant penalties for subr					
		1/1/	XXI/	2/13	17
Garland Hilliard - Director, Environmental Remediation Permittee (or Authorized Agent) Name and Title - Please print or type	Signature	of Permittee for A	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MOI	NITORING:		and 1 copy to:		IFORMATION PROCESSING UNIT	0) 722 2224
COMPLIANCE REPORT FORM	Please Print Clea	arly or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Co		,		Non-Discharge WQ00099	19 LUC	0
				NPDES	49 UIC	
Permit Name (if different):					The state of the s	
Facility Address: Domino Drive	NC	Ot Mooro		_	RATION BEING MONITORED	- 0-11
Aberdeen (Street)	(State) (Zip)	County Moore		☐ Lagoon ☐ Spray Field	Remediation: Infiltration Remediation: Ground	
			470		The state of the s	
Contact Person: Garland Hilliard		Telephone#: 423.336.4	4/9	Rotary Distributor	Land Application of Slu	The second secon
Well Location/Site Name:		No. of wells to be samp	(from Permit)	□ Water Source Heat P	ump Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit):	Carbon B-3	Date sample collected: 2		FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter:	in.	pHunits	Temp°C	DRY at time of
Depth to Water Level:ft. belo	w measuring point	Screened Interval:	ft. tof	t. Spec. Cond.	µMhos	sampling,
Measuring Point isft. above	ve land surface	Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before s	sampling:	gallons		Appearance		here:
Samples for metals were collected unfil	Itered: YES	NO and field acidified: Y	ES NO			
LABORATORY INFORMATION Date sample analyzed: 3/1/16 TCE, 2	2/26/16 PEST	Laboratory Name: Test	America		Certification No	
PARAMETERS NOTE: Values shoul						
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid same	ples)	Orthophosphate		Other (Specify Compo	ounds and Concentration Units):	
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	beta-BHC 0.085, 0	delta-BHC 0.015J (all in ug/	<u>L)</u>
pH (when analyzed)		Ba - Barium				
тос	mg/l	Ca - Calcium				-
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol			mg/l	(Specify test and me	thod #. ATTACH LAB REPORT	г.)
Sulfate	mg/l	Hg - Mercury		Report Attached?	▼ Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium		VOC	, method # <u>8260</u>	<u> </u>
		Mg - Magnesium		Section 1 and 1 an	, method # 8081B 8082	A
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrog	gen, Total)	Mn - Manganese		The state of the s	, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
For Remediation Systems Only (Attac		nfluent Total VOCs: 0.00077			0.001 mg/L VOC Remova	
I certify that, to the best of my knowledge and beling DWQ-certified laboratory. I am aware that there a						
				Section Sectio	/ 01	1_
Garland Hilliard - Director, Enviro		n	XXX	XVX	2113	117
Permittee (or Authorized Agent) Name and Title	- Please print or type	Si	gnature of Permittee (or	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM	NITORING:		nd 1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (9'	19) 733-3221
FACILITY INFORMATION	Please Print Clea	arly or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical C	orporation Site				49 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	1
Aberdeen (Street)	NC	County Moore		☐ Lagoon	Remediation: Infiltration	
(City)	(State) (Zip)	County Moore	-	☐ Spray Field	Remediation: Groun	
Contact Person: Garland Hilliard		T-1		Rotary Distributor		
		Telephone#: 423.336.4479			ump Other:	The state of the s
Well Location/Site Name:		No. or wells to be sampled	(from Permit)	□ Water Source Heat Pr	ump 🗆 Other.	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit):	Carbon B-2	Date sample collected: 4/28		FIELD ANALYSES:		WAS
Well Depth:ft.		Well Diameter:	_in.	pHunits	Temp°C	DRY at time of
Depth to Water Level:ft. bel	ow measuring point	Screened Interval:	_ft. toft.	Spec. Cond.	μMhos	sampling,
Measuring Point isft. abo	ove land surface	Relative M.P. Elevation:	ft.	Odor		check
Volume of water pumped/bailed before		gallons		A		here:
Samples for metals were collected unf	iltered: YES	NO and field acidified: YES	□NO			
LABORATORY INFORMATION		T 1.4				
Date sample analyzed: 5/9/16 TCE,		Laboratory Name: Test Am	nerica		Certification No	
PARAMETERS NOTE: Values shou COD		Nitrite (NO ₂) as N	mg/l	Ph - Lead	mg/l	
	mg/l /100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal				ZII - ZIIIC	ing/i	
Coliform: MF Total (Note: Use MPN method for highly turbid sar	/100ml	Phosphorus: Total as P		011 /0 17 0		
		Orthophosphate			ounds and Concentration Units)	
Dissolved Solids: Total		Al - Aluminum			delta-BHC 0.011J, Dieldrin	 ;
pH (when analyzed)		Ba - Barium			tone 0.043J, Heptachlor	- (1)
тос	mg/l	Ca - Calcium		epoxide 0.0055Jp	B, Toxaphene 0.92J (all ug	<u>g/L)</u>
Chloride	mg/l	Cd - Cadmium	mg/l		AND THE RESERVE OF THE SECOND	
Arsenic		Chromium: Total	mg/l			
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and me	thod #. ATTACH LAB REPOR	RT.)
Sulfate		Hg - Mercury	mg/l	Report Attached?	▼ Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium	mg/l	VOC	, method # <u>8260</u>	
Total Ammonia	ma/l	Mg - Magnesium		Pest & Biphenyls	, method # <u>8081B 808</u>	2A_
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitro	ogen, Total)	Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Atta		nfluent Total VOCs: <0.001			0.001 mg/L VOC Remov	A CONTRACT OF THE PARTY OF THE
I certify that, to the best of my knowledge and be DWQ-certified laboratory. I am aware that there						ya
			MIL	THIII	,	21,0
Garland Hilliard - Director, Enviro		The same the same that the sam	ture of Permittee (or A	Authorized Agent)	(Date)	3/17
Permittee (or Authorized Agent) Name and Title	- Please print or type	Signa	ture or Permittee (or A	Authorized Agent)	(Date)	

GW-59

Rev. 1/2007

GROUNDWATER QUALITY MONITORI COMPLIANCE REPORT FORM	NG:		Mail or and 1 co		DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	Please Print Clearly	or Type			PERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Corporation	on Site				Non-Discharge WQ0009949 UIC
Permit Name (if different):					NPDES Other
Facility Address: Domino Drive					TYPE OF PERMITTED OPERATION BEING MONITORED
	С	County Moore			☐ Lagoon ☐ Remediation: Infiltration Gallery
(City) (State) , (Zip)				☐ Spray Field
Contact Person: Garland Hilliard		Telephone#: 423.336	.4479		☐ Rotary Distributor ☐ Land Application of Sludge
Well Location/Site Name:		No. of wells to be sai	mpled:		☐ Water Source Heat Pump ☐ Other:
			(from Peri	mit)	lf WELL
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Carbon I	3-3	Date sample collected:	5/17/16		FIELD ANALYSES: WAS
Well Depth:		Well Diameter:		7222	pHunits Temp°C DRY at
Depth to Water Level:ft. below measu	ırina point	Screened Interval			ft Spec Cond uMhos time of
Measuring Point isft. above land s		Relative M.P. Elevation:			Odor sampling
Volume of water pumped/bailed before sampling:			-		Appearance here:
Samples for metals were collected unfiltered:		and field acidified:	YES DI	NO	
LABORATORY INFORMATION Date sample analyzed: 5/25/16 TCE, 5/24/16		Laboratory Name: Te			Certification No.
PARAMETERS NOTE: Values should reflect					
COD	_mg/l	Nitrite (NO ₂) as N	4	mg/l	/I Pb - Leadmg/l /I Zn - Zinc mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		mg/l	/I Zn - Zincmg/I
Coliform: MF Total	_/100ml P	hosphorus: Total as P		mg/l	1
(Note: Use MPN method for highly turbid samples)		Orthophosphate		mg/l	
Dissolved Solids: Total	_mg/l	Al - Aluminum		mg/l	
pH (when analyzed)	_units	Ba - Barium		mg/l	0.56, gamma-BHC 0.043Jp, Dieldrin 0.48,
TOC	_mg/l	Ca - Calcium		mg/l	Endrin ketone 0.29, Toxaphene 9.9 (all ug/L)
Chloride	_mg/l	Cd - Cadmium		mg/l	/I
Arsenic	_mg/l	Chromium: Total		mg/l	1
Grease and Oils	_mg/l	Cu - Copper		mg/l	ORGANICS: (by GC, GC/MS, HPLC)
Phenol	_mg/l	Fe - Iron			
Sulfate	_mg/l	Hg - Mercury			
Specific Conductance	_μMhos	K - Potassium			
Total Ammonia (Ammonia Nitrogen, NH₃as N; Ammonia Nitrogen, Total)	_mg/l	Mg - Magnesium			
		Mn - Manganese			/I, method #
TKN as N		Ni - Nickel			
For Remediation Systems Only (Attach Lab R	eports): Influ	ent Total VOCs: 0.000	73J mg/L	Efflu	uent Total VOCs: <0.001 mg/L VOC Removal% 10
I certify that, to the best of my knowledge and belief, the info DWQ-certified laboratory. I am aware that there are signific					retain analytical data was produced using approved methods of analysis by a imprisonment of knowing violations.
Garland Hilliard - Director, Environmenta			XII	R	2/12/.7
Permittee (or Authorized Agent) Name and Title - Please p			Signature of Pe	ermittee (c	(or Authorized Agent) (Date)

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM	NITORING:		Mail original and 1 copy to:		IT & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (919	a) 733_3221
FACILITY INFORMATION	Please Print Cl	early or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical C	orporation Site				49 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen (Steet)	NC	County Moore	-	☐ Lagoon	Remediation: Infiltration	n Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	The state of the s
Contact Person: Garland Hilliard		Telephone#:423.336.4	479	☐ Rotary Distributor	☐ Land Application of Slu	
Well Location/Site Name:					ump Other:	
TO I DOGUTO II OILO ITAINO!			(from Permit)			
SAMPLING INFORMATION WELL ID NUMBER (from Permit):	Carbon R-3	Date sample collected: 6/	24/16	FIELD ANALYSES:		If WELL WAS
Well Depth:ft.	Daibon b-0	Well Diameter:		pH units	Temp°C	DRY at
Depth to Water Level:ft. belo	ow measuring point	Screened Interval:			топр	time of
Measuring Point isft. abo		Relative M.P. Elevation:				sampling,
Volume of water pumped/bailed before						check here:
Samples for metals were collected unfi		gallons ☐ NO and field acidified: ☐ YE	s 🗆 NO	- Appearance	· · · · · · · · · · · · · · · · · · ·	
LABORATORY INFORMATION	moreu. E 120					
Date sample analyzed: 6/29/16 TCE,		Laboratory Name: Test A	America		Certification No	
PARAMETERS NOTE: Values shou				Dh. Lood		
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/i	
Coliform: MF Total (Note: Use MPN method for highly turbid san	/100ml	Phosphorus: Total as P		011 (0 15 0		
		Orthophosphate	Charles Annual Control of the Contro		ounds and Concentration Units):	
Dissolved Solids: Total		AI - Aluminum		TCE, PEST - all B	QL	_
pH (when analyzed)		Ba - Barium				
тос		Ca - Calcium				
Chloride		Cd - Cadmium				_
Arsenic		Chromium: Total		ODCANIOS: /h.: CO	CO/MC_LIDLO\	
Grease and Oils		Cu - Copper		ORGANICS: (by GC,		- 1
Phenol	mg/l		mg/l	Report Attached?	thod #. ATTACH LAB REPORT Yes (1) No (0)	1.)
Sulfate	mg/I μMhos	Hg - Mercury			, method # <u>8260</u>	
Specific Conductance		K - Potassium			, method # <u>8081B 8082</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitro	mg/l	Mg - Magnesium Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
TINI as IV						
For Remediation Systems Only (Attack		Influent Total VOCs: <a><0.001				
I certify that, to the best of my knowledge and be						а
DWQ-certified laboratory. I am aware that there	are significant penalties for s	ubmitting false information, including the po	ossibility of atres and in	prisonment for knowing violations		,
Garland Hilliard - Director, Enviro	nmental Remediation		rates	8LDX	2/131	17
Permittee (or Authorized Agent) Name and Title	- Please print or type	₹in	nature of Permittee (or	Authorized Agent)	(Date)	

	TER QUALITY I			and 1 copy to:		FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919)	733-3221
	REPORT FOR	Please Print C	learly or Type		ERMIT Number:	Expiration Date: 05/31/18	
FACILITY INFOR		I Corporation Site	Jan, 5, 1,45		on-Discharge WQ000994		
	The state of the s	i Corporation Site		The second secon	PDES		
Permit Name (if d						Other	
Facility Address:	Domino Drive	NO	No.			RATION BEING MONITORED	0-11
Aberdeen (City)	(Geost)	NC (State) (Zip)	County Moore		Lagoon	Remediation: Infiltration	
		X	400.000	1470	☐ Spray Field	Remediation: Groundy	
	Garland Hilliard		Telephone#:423.336		Rotary Distributor	Land Application of Slud	ige
Well Location/Site	e Name:		No. of wells to be sam	pled:(from Permit)	☐ Water Source Heat Pu	mp Other:	
SAMPLING INFO				7/40/40			If WELL
WELL ID NUMBE	ER (from Permit):		Date sample collected: _		FIELD ANALYSES:	- %	WAS DRY at
Well Depth:	ft.			in.	pHunits	Temp°C μMhos	time of
	A. C.	below measuring point		ft. toft.		μivinos	sampling,
Measuring Point i	isft.	above land surface	Relative M.P. Elevation:	ft.	Odor		check
		ore sampling:	gallons	_	Appearance		here:
		unfiltered: YES	NO and field acidified:	YES NO			
LABORATORY I		CE, 7/20/16 PEST	Laboratory Name: Tes	t America	C	ertification No.	
			nd colloidal concentrations.	Milenea		ertinoation No.	
ANAMETERO	COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform:	MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform	: MF Total	/100ml	Phosphorus: Total as P				
	PN method for highly turbi		Orthophosphate		Other (Specify Compo	unds and Concentration Units):	
Dissolved So	olids: Total	mg/l	AI - Aluminum			HC 1.1, delta-BHC 0.18,	
		units		mg/l		drin ketone 0.083J (all ug/L)	
pri (when	TOC		Ca - Calcium				
		mg/l	Cd - Cadmium				
	Arsenic		Chromium: Total				
Greas	e and Oils	mg/l	Cu - Copper		ORGANICS: (by GC, C	GC/MS, HPLC)	
Cicas				mg/l		hod #. ATTACH LAB REPORT.	J
	Phenol Sulfate	mg/l		mg/l	Report Attached?		
Specific Co.	nductance	mMhos	K - Potassium			, method # <u>8260</u>	
	Ammonia	mg/l	Mg - Magnesium			, method # 8081B 8082	A
(Ammonia Niti	rogen; NH ₃ as N; Ammonia	Nitrogen, Total)	Mn - Manganese			, method #	
	TKN as N	mg/l		mg/l		, method #	
			Influent Total VOCs: 0.0006				<u> </u>
Leartify that, to the be	n Systems Unity (A	Attach Lab Reports):	d in this report is true, accurate, and com				
			submitting false information, including the				
	- 201128080-000000000000000000000000000000	vironmental Remediati		NAX		2/13	1,7
		Title - Please print or type		Signature of Permittee (or	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MOI COMPLIANCE REPORT FORM	NITORING:		d 1 copy to:	DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	Please Print Cle	arly or Type		PERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Co	orporation Site			Non-Discharge WQ0009949 UIC
Permit Name (if different):				NPDES Other
Facility Address: Domino Drive				TYPE OF PERMITTED OPERATION BEING MONITORED
Aberdeen (Street)	NC	County Moore		☐ Lagoon ☐ Remediation: Infiltration Gallery
(City)	(State) (Zip)			☐ Spray Field
Contact Person: Garland Hilliard		Telephone#: _423.336.4479		Rotary Distributor Land Application of Sludge
Well Location/Site Name:		No of wells to be sampled:		☐ Water Source Heat Pump ☐ Other:
			(from Permit)	
SAMPLING INFORMATION	Carbon B 2	Date sample collected: 10/4/	/16	If WELL
WELL ID NUMBER (from Permit):	albuil b-2	Well Diameter:		TILLED ATTALL TOLO.
Well Depth:ft.	managerina maint	Screened Interval:		time of
Depth to Water Level:ft. belo				samplir
Measuring Point isft. abo		Relative M.P. Elevation:	п.	
Volume of water pumped/bailed before s		_gallons NO and field acidified: ☐ YES	Пио	Appearance here:
Samples for metals were collected unfi LABORATORY INFORMATION	itered: LIYES L	TNO and field acidified.	LINO	
Date sample analyzed: 10/13/16 TCE	, 10/12/16 PEST	Laboratory Name: Test Ame	erica	Certification No
PARAMETERS NOTE: Values should				
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Leadmg/lmg/lmg/lmg/l
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zincmg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	
(Note: Use MPN method for highly turbid sam	ples)	Orthophosphate	mg/l	Other (Specify Compounds and Concentration Units):
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Aldrin 0.0084Jp, alpha-BHC 0.046J, alpha-
pH (when analyzed)	units	Ba - Barium	mg/l	Chlordane 0.049, beta-BHC 1.8, delta-BHC
TOC		Ca - Calcium	mg/l	0.30, Dieldrin 0.23, Endrin ketone 0.16,
Chloride		Cd - Cadmium		gamma-BHC 0.048, Heptachlor epoxide
Arsenic		Chromium: Total		0.033J, Toxaphene 3.9J (all ug/L)
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, HPLC)
Phenol		Fe - Iron		(Specify test and method #. ATTACH LAB REPORT.)
Sulfate	mg/l	Hg - Mercury		Report Attached? X Yes (1) No (0)
Specific Conductance	μMhos	K - Potassium		VOC , method # 8260
		Mg - Magnesium		Pest & Biphenyls , method # 8081B 8082A
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitro	gen, Total)	Mn - Manganese		, method #
TKN as N	mg/l	Ni - Nickel		, method #
				ent Total VOCs:

FACILITY INFORMATION	Please Print Clearly or	Туре		P	PERMIT Number:	Expiration Date: 05/31/18	3
Facility Name: Geigy Chemical Corporation	n Site			N	Non-Discharge WQ000994	19 UIC	
Permit Name (if different):				N	NPDES	Other	
Facility Address: Domino Drive				_ т	YPE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street) NC		County Moore			☐ Lagoon	☐ Remediation: Infiltration	Gallery
(City) (State)	20.44				☐ Spray Field	Remediation: Grounds	water
Contact Person: Garland Hilliard		_ Telephone#: _423.336	5.4479		☐ Rotary Distributor	☐ Land Application of Sluc	lge
Well Location/Site Name:		No of wells to be sai	mpled:		☐ Water Source Heat Pu	ımp Other:	
SAMPLING INFORMATION			(from Permit)				If WELL
WELL ID NUMBER (from Permit): MW-4S		Date sample collected:	10/5/16		FIELD ANALYSES:		WAS
Well Depth: 41.97 ft.		Well Diameter:	2 in.		pH <u>4.68</u> units	Temp17.89 °C	DRY at
Depth to Water Level: 34.95 ft. below measur	ing point	Screened Interval:	31.9 ft. to	41.9 ft	t. Spec. Cond.	<u>97</u> μMhos	time of sampling
Measuring Point isft. above land su		Relative M.P. Elevation:	473.49 ft.		Odor None		check
Volume of water pumped/bailed before sampling:		ns			Appearance Clear	r	here:
Samples for metals were collected unfiltered:	YES NO	and field acidified:	YES NO)			
ABORATORY INFORMATION Date sample analyzed: 10/12/16		Laboratory Name: Te	st America		C	Certification No. 269	
PARAMETERS NOTE: Values should reflect of	dissolved and coll	The second secon					
COD	mg/l	Nitrite (NO ₂) as N		mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		mg/l	Pb - Lead Zn - Zinc	mg/l	
	/100ml Pho	osphorus: Total as P		mg/l			
(Note: Use MPN method for highly turbid samples)		Orthophosphate		mg/l		unds and Concentration Units):	
Dissolved Solids: Total	mg/l	Al - Aluminum		mg/l	TCL Pesticides - R	Results attached	
pH (when analyzed)	units	Ba - Barium		mg/l			
	mg/l	Ca - Calcium		mg/l			
Chloride	mg/l	Cd - Cadmium					
Arsenic	mg/l	Chromium: Total		mg/l			_
	mg/l	Cu - Copper		mg/l	ORGANICS: (by GC, G		
	mg/l	· ·				thod #. ATTACH LAB REPORT.	.)
	mg/l	Hg - Mercury			Report Attached?		
Specific Conductance	μ M hos	K - Potassium		mg/l		, method # <u>8081B / 8085A</u>	-
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	mg/l	Mg - Magnesium				, method #	
		Mn - Manganese				, method #	
TKN as N	mg/l	Ni - Nickel		mg/l		, method #	
For Remediation Systems Only (Attach Lab Re	oorts): Influe	nt Total VOCs:	mg/L	Effluer	nt Total VOCs:	mg/L VOC Removal	%
certify that, to the best of my knowledge and belief, the inform	nation submitted in this	report is true, accurate, and co	mplete, and that the	laborate	orv enalytical data was produced t	ising approved methods of analysis by a	
DWQ-certified laboratory. I am aware that there are significan	t penalties for submittin	g false information, including the	ne possibility of fines	and In	prisonment for knowing violations.		

GW-59

Rev. 1/2007

GROUNDWATER QUALITY MON	IITORING:		1 copy to: DIV		FORMATION PROCESSING UNIT	9) 733-3221
FACILITY INFORMATION	Please Print (Clearly or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Co	rporation Site		No	n-Discharge WQ000994		
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive				PE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC 2831	5 County Moore		☐ Lagoon	Remediation: Infiltration	
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336.4479		☐ Rotary Distributor	The state of the s	
Well Location/Site Name:		No of wells to be sampled:			ump Other:	
		(fre	om Permit)			
SAMPLING INFORMATION	M FC	Date sample collected: 10/5/1	6	FIELD ANALYSES:		If WELL WAS
WELL ID NUMBER (from Permit): M Well Depth: 47.44 ft.	VV-33	Well Diameter: 2 in	HILLIAN STATE OF THE STATE OF T	pH 4.22 units	Temp17.68_°C	DRY at
Depth to Water Level: 38.89 ft. below	y mossuring point	Screened Interval: 37.4 ft.		Spec. Cond.	48 μMhos	time of
Measuring Point isft. abov		Relative M.P. Elevation: 471.	the state of the s	Odor None	10	sampling,
Volume of water pumped/bailed before sa		0.5 gallons	1	Appearance Clea	r	check here:
Samples for metals were collected unfilt		□ NO and field acidified: □ YES	□NO	Appearance <u>Olca</u>		
LABORATORY INFORMATION	eleu. 🗀 123	NO and held acidined.				
Date sample analyzed: 10/12/16		Laboratory Name: Test Amer	rica		Certification No. 269	
PARAMETERS NOTE: Values should						
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid samp		Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Total		AI - Aluminum		TCL Pesticides - F	Results attached	
pH (when analyzed)		Ba - Barium				
тос	mg/l	Ca - Calcium				
Chloride		Cd - Cadmium				_
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC,		
Phenol		Fe - Iron			thod #. ATTACH LAB REPORT	Г.)
Sulfate	mg/l	Hg - Mercury		Report Attached?		
Specific Conductance		K - Potassium			, method # <u>8081B</u> /8082A	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitrog	mg/l	Mg - Magnesium			, method #	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attack			ng/L Effluent		mg/L VOC Remova	
		ed in this report is true, accurate, and complete, and submitting false information, including the possibilit				
DVVQ-centilled laboratory. I am aware that there a	e significant penalties for	submitting raise information, including the possibility	11/1/5	VI V	-	1-
Garland Hilliard - Director, Enviror			also	the second	2/13	117
Permittee (or Authorized Agent) Name and Title -	Please print or type	Signature	of Permittee for Au	ithorized Agent)	(Date)	

ermittee (or Authorized Agent) Name and Title - Please print or type

GROUNDWATER QUALITY MON COMPLIANCE REPORT FORM	ITORING:		Mail original and 1 copy to:		IT & NATURAL RESOURCES NFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (91	(9) 733-3221
FACILITY INFORMATION	Please Print Cle	arly or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Con	poration Site				49 UIC	
Permit Name (if different):			The second secon	NPDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	
(City)	(State) (Zip)	County Ividere		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336	4479	Rotary Distributor	☐ Land Application of SI	
Well Location/Site Name:		No of wells to be som	uplod:		ump Other:	
vveil Location/Site Name		No. of wells to be sail	(from Permit)	Water Source Fleat F	unip 🗆 other.	
SAMPLING INFORMATION			4015140			If WELL
WELL ID NUMBER (from Permit): M	N-6S	Date sample collected:		FIELD ANALYSES:	40.00.05	WAS DRY at
Well Depth: <u>47.01</u> ft.		Well Diameter:	The second secon	pH <u>3.88</u> units	Temp. 18.80 °C	time of
Depth to Water Level: 41.15 ft. below			37. ft. to 47.0		145 μMhos	sampling,
Measuring Point isft. above			464.73 ft.	Odor None		check
Volume of water pumped/bailed before sa			_	Appearance Sligh	tly Cloudy	here:
Samples for metals were collected unfilt	ered: YES	NO and field acidified:	YES UNO			
LABORATORY INFORMATION Date sample analyzed: 10/12/16		Laboratory Name: Tes	t America		Certification No. 269	
PARAMETERS NOTE: Values should	reflect dissolved and					
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid sample	es)	Orthophosphate	mg/l	Other (Specify Compo	ounds and Concentration Units)	:
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides - F	Results attached	
pH (when analyzed)		Ba - Barium	mg/l			
тос	mg/l		mg/l			
Chloride	mg/l	Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol			mg/l	(Specify test and me	thod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l		mg/l	Report Attached?	▼ Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium		Pest & Biphenlys	, method # <u>8081B / 8082</u>	2A_
		Mg - Magnesium			, method #	
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitroge	en, Total)	Mn - Manganese			, method #	
TKN as N	mg/l		mg/l		, method #	
For Remediation Systems Only (Attack		Influent Total VOCs:		ent Total VOCs:	mg/L VOC Remov	
I certify that, to the best of my knowledge and belied DWQ-certified laboratory. I am aware that there are						/a
			09/1	7/4//	,	1-
Garland Hilliard - Director, Enviror			Valx	alle	2/13	117
Permittee (or Authorized Agent) Name and Title -	Please print or type		Signature of Permittee (o	r Authorized Agent)	(Date)	

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM	NITORING:		d 1 copy to:		FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (91	19) 733-3221
FACILITY INFORMATION	Please Print Cle	early or Type	PE	RMIT Number:	Expiration Date: 05/31/	18
Facility Name: Geigy Chemical Co	orporation Site				9 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive					RATION BEING MONITORED)
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	on Gallery
· (City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336.4479		☐ Rotary Distributor	☐ Land Application of SI	ludge
Well Location/Site Name:		No. of wells to be sampled:			mp Other:	
		•	(from Permit)			lie varen i
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Number Numb	/\\/_10S	Date sample collected: 10/5	/16	FIELD ANALYSES:		If WELL WAS
Well Depth: 41.36 ft.	100	Well Diameter: 2		pH 4.64 units	Temp17.44 °C	DRY at
Depth to Water Level: 25.53 ft. beld	ow measuring point	Screened Interval: 31.3		Spec. Cond.	29 μMhos	time of
Measuring Point isft. abo				Odor None	20	sampling
Volume of water pumped/bailed before			n.	Appearance Slightl	v Cloudy	check here:
Samples for metals were collected unfi			Пио		, 5,555	
LABORATORY INFORMATION	itered.					
Date sample analyzed: 10/12/16 PES		Laboratory Name: Test Am	erica	C	ertification No. 269	
PARAMETERS NOTE: Values shou						
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total (Note: Use MPN method for highly turbid sam	/100ml	Phosphorus: Total as P				
		Orthophosphate	the second secon		unds and Concentration Units)	l .
Dissolved Solids: Total		Al - Aluminum		TCL Pesticides - R		
pH (when analyzed)	units	Ba - Barium		TCE - Results atta	cnea	
TOC		Ca - Calcium				
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils	mg/l	Cu - Copper		ORGANICS: (by GC, C		
Phenol	mg/l	Fe - Iron			hod #. ATTACH LAB REPOR	(1.)
Sulfate	mg/l	Hg - Mercury		Report Attached?		
Specific Conductance		K - Potassium		VOC		2.4
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitro	mg/l	Mg - Magnesium			, method # <u>8081B / 8082</u>	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l	-	, method #	
For Remediation Systems Only (Attack	h Lab Reports):	Influent Total VOCs:	_mg/L Effluent	Total VOCs:	mg/L VOC Remov	/al%
I certify that, to the best of my knowledge and be					sing approved methods of analysis by	y a
DWQ-certified laboratory. I am aware that there	are significant penalties for su	ubmitting false information, including the possil	bility of rines and impr	isonment for knowing violations.		
Garland Hilliard - Director, Enviro	nmental Remediation	on C	VIII	MAN	2/13	10
Permittee (or Authorized Agent) Name and Title	The state of the s		ure of Permittee (or A	uthorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		copy to: DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-	3221
FACILITY INFORMATION	Clearly or Type	PERMIT Number: Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Corporation Site		Non-Discharge WQ0009949 UIC	
Permit Name (if different):			
Facility Address: Domino Drive		TYPE OF PERMITTED OPERATION BEING MONITORED	
Aberdeen (Street) NC 283		Lagoon Remediation: Infiltration Gall	lery
(City) (State) (Zip)		☐ Spray Field	er
Contact Person: Garland Hilliard	Telephone#: 423.336.4479	Rotary Distributor Land Application of Sludge	
Well Location/Site Name:	No. of wells to be sampled:	Water Source Heat Pump ☐ Other:	
SAMPLING INFORMATION	(from		WELL
WELL ID NUMBER (from Permit): MW-16S	Date sample collected: 10/4/16	FIELD ANALYSES:	VAS
Well Depth: 68.04 ft.	Well Diameter: 2 in.	ph 4.51 units fellip. 11.00 C	RY at
Depth to Water Level: 46.02 ft. below measuring point	Screened Interval: 58. ft.	to 68 ft Spec Cond 63 µMhos	me of ampling
	Relative M.P. Elevation: 484.5	FO None	heck
	5.0 gallons		ere:
	□ NO and field acidified: □ YES	The state of the s	L
LABORATORY INFORMATION		200	
Date sample analyzed: 10/12/16 PEST, 10/13/16 TCE	Laboratory Name: Test Americ	ca Certification No. 269	
PARAMETERS NOTE: Values should reflect dissolved	Nitrite (NO ₂) as N	mall Dh Lood mall	
CODmg/l		mg/l Pb - Leadmg/l mg/l Zn - Zinc mg/l	
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N		
Coliform: MF Total/100ml (Note: Use MPN method for highly turbid samples)	Phosphorus: Total as P		
	Orthophosphate		
Dissolved Solids: Totalmg/l	AI - Aluminum		
pH (when analyzed)units	Ba - Barium		
TOCmg/l	Ca - Calcium		
Chloridemg/l	Cd - Cadmium	mg/l	
Arsenicmg/l	Chromium: Total		
Grease and Oilsmg/l	Cu - Copper		
Phenolmg/l	Fe - Iron		
Sulfatemg/l	Hg - Mercury		
Specific ConductanceµMhos	K - Potassium		
Total Ammoniamg/l (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mg - Magnesium		
	Mn - Manganese		
TKN as Nmg/l	Ni - Nickel	mg/l, method #	
For Remediation Systems Only (Attach Lab Reports):		g/L Effluent Total VOCs:mg/L VOC Removal% _	
		that the laboratory analytical data was produced using approved methods of analysis by a	
DWQ-certified laboratory. I am aware that there are significant penalties for	\sim	of the and information of the angle violations.	
Garland Hilliard - Director, Environmental Remedia	tion	of Permittee (or Authorized Agent) (Date)	

GROUNDWATER QUALITY MONITOR	ING:		Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INF 1617 MAIL SERVICE CENTER, RAL	& NATURAL RESOURCES ORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919	0 733-3221
FACILITY INFORMATION	Please Print Clearly	or Type		PERMIT Number:	Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Corporati	on Site			The state of the s	9 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive					RATION BEING MONITORED	
100	IC 28315	County Moore	STATE OF THE STATE	☐ Lagoon	Remediation: Infiltration	Gallery
(City) (State		Oddity		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: 423.336	.4479	Rotary Distributor	☐ Land Application of Slu	World - College
Well Location/Site Name:				The second secon	np Other:	uge
vveii Location/Site Name.		140. Of Wells to be sail	(from Permit)	— Water oddree ricat i di	rip — otrior.	
SAMPLING INFORMATION		2-4	10/4/16			If WELL
WELL ID NUMBER (from Permit): MW-17S	<u> </u>	Date sample collected:		FIELD ANALYSES:	+ 17.61 °C	WAS DRY at
Well Depth: 59.42 ft.		Well Diameter:		pH <u>4.46</u> units	Temp. <u>17.61</u> °C 66 μMhos	time of
Depth to Water Level:46.37 ft. below meas		Screened Interval:			DO µMINOS	sampling,
Measuring Point isft. above land s			40U.ZZ ft.	Odor None		check
Volume of water pumped/bailed before sampling				Appearance Clear		here:
Samples for metals were collected unfiltered:	_YES ∟N	O and field acidified:	YES LINO		· · · · · · · · · · · · · · · · · · ·	
LABORATORY INFORMATION Date sample analyzed: 10/12/16 PEST, 10/1	13/16 TCE	Laboratory Name: Tes	t America	Ce	ertification No. 269	
PARAMETERS NOTE: Values should reflec						
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)		Orthophosphate			and Concentration Units):	
Dissolved Solids: Total	mg/l	Al - Aluminum			esults attached	
pH (when analyzed)			mg/l		ched	
тос			mg/l			
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils			mg/l		C/MS, HPLC)	
Phenol			mg/l		nod #. ATTACH LAB REPORT	.)
Sulfate			mg/l			
Specific Conductance	μMhos	K - Potassium				,
Total Ammonia	mg/l	Mg - Magnesium			, method # 8081B / 8082	4
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attach Lab R		luent Total VOCs:			mg/L VOC Remova	
I certify that, to the best of my knowledge and belief, the info					sing approved methods of analysis by	a
DWQ-certified laboratory. I am aware that there are signific	ani penaities for subm	litting raise information, including the	possibility of files and	in a solar and the showing violations.		1
Garland Hilliard - Director, Environmenta			VAX	SHE	2/13/1	17
Permittee (or Authorized Agent) Name and Title - Please p	print or type		Signature of Permittee (d	or Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING:		and 1 copy to:		FORMATION PROCESSING UNIT	V 722 2224
COMPLIANCE REPORT FORM	e Print Clearly or Type			Expiration Date: 05/31/1	
PACIENT INFORMATION			ERMIT Number: on-Discharge WQ000994	The second secon	
			PDES		
Permit Name (if different):				Other	
Facility Address: Domino Drive Aberdeen NC	28315 County Moore			RATION BEING MONITORED	0.11
Aberdeen (City) (State)	28315 County Moore		Lagoon	Remediation: Infiltration	
		4470	☐ Spray Field	Remediation: Ground	
	Telephone#: 423.336.	.4479	Rotary Distributor	Land Application of Slu	dge
Well Location/Site Name:	No. of wells to be same	pled:(from Permit)	☐ Water Source Heat Pu	mp Other:	
SAMPLING INFORMATION					If WELL
WELL ID NUMBER (from Permit): MW-18S	Date sample collected:		FIELD ANALYSES:		WAS
Well Depth: <u>49.75</u> ft.	Well Diameter:		pH <u>4.03</u> units	Temp20.21 °C	DRY at time of
Depth to Water Level: 47.63 ft. below measuring po	oint Screened Interval:	39.7 ft. to 49.7 ft.	Spec. Cond.	94 μMhos	sampling,
Measuring Point isft. above land surface	Relative M.P. Elevation:	467.83 ft.	Odor None		check
Volume of water pumped/bailed before sampling:			Appearance Clear		here:
Samples for metals were collected unfiltered: YES	☐ NO and field acidified: ☐	YES NO			
LABORATORY INFORMATION Date sample analyzed: 10/12/16 PEST, 10/13/16		t America	с	ertification No. 269	
PARAMETERS NOTE: Values should reflect disso					
CODmg/l		mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal/100		mg/l	Zn - Zinc	mg/l	
Coliform: MF Total/100	ml Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)	Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Totalmg/l			TCL Pesticides - R		
pH (when analyzed)units			TCE - Results atta	ched	
TOCmg/l	Ca - Calcium	mg/l			
Chloridemg/l					
Arsenicmg/l	Chromium: Total	mg/l			
Grease and Oilsmg/l	Cu - Copper	mg/l	ORGANICS: (by GC, C	GC/MS, HPLC)	
Phenolmg/l	Fe - Iron	mg/l		hod #. ATTACH LAB REPORT	:)
Sulfatemg/l	Hg - Mercury	mg/l	Report Attached?	▼ Yes (1) □ No (0)	
Specific ConductanceµMh			VOC	, method # <u>8260</u>	
Total Ammonia mg/l			Pest & Biphenlys	, method # 8081B / 8082/	<u>4_</u>
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	
TKN as Nmg/l					_
For Remediation Systems Only (Attach Lab Reports		mg/L Effluen		mg/L VOC Remova	
I certify that, to the best of my knowledge and belief, the information DWQ-certified laboratory. I am aware that there are significant pena				sing approved methods of analysis by a	a
Garland Hilliard - Director, Environmental Rem		0/1		2/13	1,7
Permittee (or Authorized Agent) Name and Title - Please print or ty		Signature of Permittee (or A	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		il original DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES 1 copy to: 1 copy to: 1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION Please Print Clearly	or Type	PERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Corporation Site		Non-Discharge WQ0009949 UIC
Permit Name (if different):		NPDES Other
Facility Address: Domino Drive		TYPE OF PERMITTED OPERATION BEING MONITORED
Aberdeen (Street) NC 28315	County Moore	☐ Lagoon ☐ Remediation: Infiltration Gallery
(City) (State) (Zip)	Oddity Moore	☐ Spray Field
Contact Person: Garland Hilliard	Telephone#: 423.336.4479	Rotary Distributor Land Application of Sludge
Well Location/Site Name:	No of wells to be sampled:	☐ Water Source Heat Pump ☐ Other:
	(from	m Permit)
SAMPLING INFORMATION	40/4/40	If WELL
WELL ID NUMBER (from Permit): MW-11D	Date sample collected: 10/4/16	
Well Depth: <u>75.39</u> ft.	Well Diameter: 2 in.	time of
Depth to Water Level: 69.31 ft. below measuring point	Screened Interval: 65 ft.	Samping
Measuring Point isft. above land surface	Relative M.P. Elevation: 463.4	
Volume of water pumped/bailed before sampling:ga		Appearance Clear here:
	O and field acidified: YES	□ NO □
LABORATORY INFORMATION Date sample analyzed: 10/12/16 PEST, 10/13/16 TCE	Laboratory Name: Test Americ	ca Certification No. 269
PARAMETERS NOTE: Values should reflect dissolved and c	olloidal concentrations. Nitrite (NO ₂) as N	ma/l Dh Lood ma/l
COD mg/l		mg/l Pb - Leadmg/l mg/l Zn - Zinc mg/l
Coliform: MF Fecal/100ml	Nitrate (NO ₃) as N	
Coliform: MF Total/100ml F (Note: Use MPN method for highly turbid samples)	Phosphorus: Total as P	
And the second s	Orthophosphate	
Dissolved Solids: Totalmg/l	AI - Aluminum	
pH (when analyzed)units	Ba - Barium	
TOCmg/l	Ca - Calcium	
Chloridemg/l	Cd - Cadmium	mg/l
Arsenicmg/I	Chromium: Total	mg/l
Grease and Oilsmg/l	Cu - Copper	mg/l ORGANICS: (by GC, GC/MS, HPLC)
Phenolmg/l	Fe - Iron	
Sulfatemg/l	Hg - Mercury	mg/l Report Attached?
Specific ConductanceµMhos	K - Potassium	mg/l VOC , method # <u>8260</u>
Total Ammonia mg/l	Mg - Magnesium	mg/l Pest & Biphenlys , method # 8081B / 8082A
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese	
TKN as Nmg/l	Ni - Nickel	mg/l, method #
		g/L Effluent Total VOCs:mg/L VOC Removal%
I certify that, to the best of my knowledge and belief, the information submitted in t DWQ-certified laboratory. I am aware that there are significant penalties for subm		i that the laboratory analytical data was produced using approved methods of analysis by a y of fries and interisonment for knowing violations.
Garland Hilliard - Director, Environmental Remediation	0/	2/13/17
Permittee (or Authorized Agent) Name and Title - Please print or type	Signature of	of Permittee (or Authorized Agent) (Date)

GROUNDWATER QUALITY MONITORING:	Mail origina and 1 copy to	DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES DIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT
COMPLIANCE REPORT FORM Please Print Clearly of		1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	Туре	PERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Corporation Site		Non-Discharge WQ0009949 UIC
Permit Name (if different):		NPDES Other
Facility Address: Domino Drive		TYPE OF PERMITTED OPERATION BEING MONITORED
Aberdeen (Street) NC 28315 (City) (State) (Zip)	County Moore	Lagoon Remediation: Infiltration Gallery
		☐ Spray Field
Contact Person: Garland Hilliard	Telephone#: _423.336.4479	Rotary Distributor Land Application of Sludge
Well Location/Site Name:	No. of wells to be sampled:	☐ Water Source Heat Pump ☐ Other:
SAMPLING INFORMATION		If WELL
WELL ID NUMBER (from Permit): MW-16D	Date sample collected: 10/4/16	_ FIELD ANALYSES: WAS
Well Depth: <u>123.57</u> ft.	Well Diameter: 2 in.	pH 4.24 units Temp. 18.52 °C DRY at time of
Depth to Water Level: 92.82 ft. below measuring point		3 ft. Spec. Cond. 38 μMhos sampling.
Measuring Point isft. above land surface		Odor None check
Volume of water pumped/bailed before sampling:0.75_gall		Appearance Clear here:
Samples for metals were collected unfiltered: YES NO	and field acidified: YES NO	
LABORATORY INFORMATION Date sample analyzed: 10/13/16	Laboratory Name: Test America	Certification No. 269
PARAMETERS NOTE: Values should reflect dissolved and co	The state of the s	
COD mg/l	Nitrite (NO ₂) as Nmg	/I Pb - Leadmg/I
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N mg	/I Pb - Leadmg/I /I Zn - Zincmg/I
Coliform: MF Total /100ml Pi	nosphorus: Total as Pmg	
(Note: Use MPN method for highly turbid samples)	Orthophosphatemg	
Dissolved Solids: Totalmg/l	AI - Aluminummg	// TCE - Results attached
pH (when analyzed)units	Ba - Bariummg	
TOCmg/l	Ca - Calciummg.	
Chloridemg/l	Cd - Cadmiummg	И
Arsenicmg/l	Chromium: Totalmg	
Grease and Oilsmg/l	Cu - Coppermg	
Phenolmg/l	Fe - Ironmg	
Sulfatemg/l	Hg - Mercurymg	
Specific ConductanceµMhos	K - Potassiummg	
Total Ammonia mg/l	Mg - Magnesiummg	
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganesemg	
TKN as Nmg/l	Ni - Nickelmg	
For Remediation Systems Only (Attach Lab Reports): Influe		uent Total VOCs:mg/L VOC Removal%
I certify that, to the best of my knowledge and belief, the information submitted in thi DWQ-certified laboratory. I am aware that there are significant penalties for submitt		
Towo-certified laboratory. Farth aware that there are significant penalties for submitt	ing raise information, including the possibility of 9,63 and	The state of the s
Garland Hilliard - Director, Environmental Remediation	X Africa	2/13/17
Permittee (or Authorized Agent) Name and Title - Please print or type	Signature of Permittee	(or Authorized Agent) (Date)

GROUNDWATER QUALITY MON	ITORING:		1 copy to: DIV		FORMATION PROCESSING UNIT	0) 722 2024
COMPLIANCE REPORT FORM	Please Print Cle	early or Type			ALEIGH, NC 27699-1617 Phone: (91	
FACILITY INFORMATION		early of Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Cor				n-Discharge WQ00099		
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive				_	ERATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		Lagoon	Remediation: Infiltration	
(City)	(State) (Zip)			Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		☐ Rotary Distributor		-
Well Location/Site Name:		No. of wells to be sampled:	from Permit)	☐ Water Source Heat P	ump Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit): MV	V-17D	Date sample collected: 10/4/	16	FIELD ANALYSES:		WAS
Well Depth: 123.17 ft.		Well Diameter: 2	n.	pH <u>4.39</u> units	Temp17.65 °C	DRY at time of
Depth to Water Level: 94.65 ft. below	measuring point	Screened Interval: 113	t. to 123 ft.		27_μMhos	sampling,
Measuring Point isft. above	land surface	Relative M.P. Elevation: 489	9.60 ft.	Odor None		check
Volume of water pumped/bailed before sa		_gallons		Appearance Clea	r	here:
Samples for metals were collected unfilte		NO and field acidified: YES	□NO			
LABORATORY INFORMATION		T 1.4			260	
Date sample analyzed: 10/14/16		Laboratory Name: Test Ame	erica		Certification No. 269	
PARAMETERS NOTE: Values should COD		Nitrite (NO ₂) as N	mg/l	Ph - Lead	mg/l	
Coliform: MF Fecal	mg/l /100ml	Nitrate (NO ₃) as N		Pb - Lead	mg/l	
				211 - 21110		
Coliform: MF Total (Note: Use MPN method for highly turbid sample		Phosphorus: Total as P		Oth (Cif : C	de and Consententian Unite	
		Orthophosphate			ounds and Concentration Units)	()
Dissolved Solids: Total		AI - Aluminum		TCE - Results atta	acned	
pH (when analyzed)		Ba - Barium				
тос	mg/l	Ca - Calcium				
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC,		
Phenol		Fe - Iron	mg/l		thod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l	Hg - Mercury			Yes (1) No (0)	
Specific Conductance		K - Potassium	mg/l		, method # <u>8260</u>	
Total Ammonia	mg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitroge		Mn - Manganese	mg/l		, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attach			mg/L Effluent		mg/L VOC Remov	
I certify that, to the best of my knowledge and belief						/a
DWQ-certified laboratory. I am aware that there are	significant penalties for si	ubmitting raise information, including the possib		Wing John Hons		1-
Garland Hilliard - Director, Environ		on C	Kals	APL	2/13	3/17
Permittee (or Authorized Agent) Name and Title -	Please print or type	Signatu	e of Permittee (or A	uthorized Agent)	(Date)	

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM	NITORING:		d 1 copy to:	IEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES IIVISION OF WATER QUALITY-INFORMATION PROCESSING UNIT 617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 7	33-3221
FACILITY INFORMATION	Please Print Clea	arly or Type	P	PERMIT Number: Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Co	orporation Site		N	Non-Discharge WQ0009949 UIC	
Permit Name (if different):	THE RESERVE OF THE PERSON OF T		the state of the s	NPDES Other	
Facility Address: Domino Drive			т	TYPE OF PERMITTED OPERATION BEING MONITORED	Standard Comment
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon ☐ Remediation: Infiltration G	Sallery
(City)	(State) (Zip)			☐ Spray Field	ater
Contact Person: Garland Hilliard		Telephone#: _423.336.4479)	☐ Rotary Distributor ☐ Land Application of Sludg	
Well Location/Site Name:		No. of wells to be sampled:		☐ Water Source Heat Pump ☐ Other:	,
			(from Permit)		hevaren i
SAMPLING INFORMATION WELL ID NUMBER (from Permit): Number Numbe	/\\/_18D	Date sample collected: 10/5/	/16	FIELD ANALYSES:	If WELL WAS
70.00	100	Well Diameter: 2		pH 4.09 units Temp16.93_°C	DRY at
Well Depth: 72.36 ft. Depth to Water Level: 56.20 ft. belo	w massuring point	Screened Interval: 62.6			time of
Measuring Point isft. abo		Relative M.P. Elevation: 44		Odor None	sampling
Measuring Point isπ. abo Volume of water pumped/bailed before s		gallons		Appearance Clear	check here:
Samples for metals were collected unfi		NO and field acidified: YES	Пио	Appearance	
LABORATORY INFORMATION	itered. 🗆 123 🗀	NO and held acidined.			
Date sample analyzed: 10/12/16 PES	ST, 10/13/16 TCE	Laboratory Name: Test Ame	erica	Certification No. 269	
PARAMETERS NOTE: Values should	d reflect dissolved and				
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Leadmg/l Zn - Zincmg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zincmg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P			
(Note: Use MPN method for highly turbid sam	ples)	Orthophosphate	mg/l	Other (Specify Compounds and Concentration Units):	
Dissolved Solids: Total		AI - Aluminum		TCE - Results attached	_,
pH (when analyzed)	units	Ba - Barium	mg/l	TCL Pesticides - Results Attached	<u></u>
TOC	mg/l	Ca - Calcium	mg/l		_
Chloride		Cd - Cadmium	mg/l		_
Arsenic	mg/l	Chromium: Total	mg/l		_
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, GC/MS, HPLC)	
Phenol		Fe - Iron	mg/l	(Specify test and method #. ATTACH LAB REPORT.)	
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached? X Yes (1) No (0)	
Specific Conductance	μMhos	K - Potassium		VOC , method # 8260	_
Total Ammonia (Ammonia Nitrogen; NH₃ as N; Ammonia Nitro		Mg - Magnesium	mg/l	Pest & Biphenlys , method # 8081B / 8082 A	_
		Mn - Manganese		, method #	_
TKN as N	mg/l	Ni - Nickel	mg/l	, method #	-
For Remediation Systems Only (Attac	A STATE OF THE STA		mg/L Effluer		6
I certify that, to the best of my knowledge and bel DWQ-certified laboratory. I am aware that there				ory analytical data was produced using approved methods of analysis by a prison lient for knewing violations.	
Garland Hilliard - Director, Enviro	nmental Remediation		ales	2/13/1	7
Permittee (or Authorized Agent) Name and Title	- Please print or type	Signatu	re of Permittee (or	Authorized Agent) (Date)	

GROUNDWATER QUALITY MONITORING:	Mail origi and 1 copy	nal DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES to: to:
COMPLIANCE REPORT FORM Please Print Clearly or		1617 MAIL SERVICE CENTER, RALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	туре	PERMIT Number: Expiration Date: 05/31/18
Facility Name: Geigy Chemical Corporation Site		Non-Discharge WQ0009949 UIC
Permit Name (if different):		NPDES Other
Facility Address: Domino Drive		TYPE OF PERMITTED OPERATION BEING MONITORED
Aberdeen NC 20313	County Moore	☐ Lagoon ☐ Remediation: Infiltration Gallery
37.00		☐ Spray Field
Contact Person: Garland Hilliard	_ Telephone#: 423.336.4479	Rotary Distributor Land Application of Sludge
Well Location/Site Name:	No. of wells to be sampled:	☐ Water Source Heat Pump ☐ Other:
SAMPLING INFORMATION		If WELL
WELL ID NUMBER (from Permit): MW-20D	Date sample collected: 10/4/16	FIELD ANALYSES: WAS
Well Depth: <u>47.44</u> ft.	Well Diameter: 2 in.	pH 4.23 units Temp. 17.79 °C DRY at time of
Depth to Water Level: 37.29 ft. below measuring point	Screened Interval: 37.4 ft. to 4	1.4 ft. Spec. Cond. 31 μwinos sampling.
Measuring Point isft. above land surface	Relative M.P. Elevation: 421.24 ft.	Odor None check
Volume of water pumped/bailed before sampling:2_gallo		Appearance Clear here:
Samples for metals were collected unfiltered: YES NO	and field acidified: YES NO	
LABORATORY INFORMATION	Laboratory Name: Test America	Certification No. 269
Date sample analyzed: 10/12/16 PARAMETERS NOTE: Values should reflect dissolved and col		Certification No. 255
COD mg/l		ng/l Pb - Lead mg/l
Coliform: MF Fecal /100ml		mg/l Pb - Leadmg/l mg/l Zn - Zinc mg/l
	osphorus: Total as Pr	
(Note: Use MPN method for highly turbid samples)	Orthophosphater	
Dissolved Solids: Totalmg/l	Al - Aluminumr	
	Ba - Bariumr	
pH (when analyzed)units TOC mg/l	Ca - Calciumr	
		mg/l
Chloridemg/l		
Arsenicmg/l Grease and Oilsmg/l	Cu - Copperr	
The state of the s		
Phenolmg/l	Fe - Ironr	
Sulfatemg/l	Hg - Mercuryr	mg/l Pest & Biphenyls , method # 8081B / 8082A
Total Ammoniamg/l (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Total)	Mg - Magnesiumr	
	Mn - Manganeser	
TKN as Nmg/l		
For Remediation Systems Only (Attach Lab Reports): Influe		Effluent Total VOCs:mg/L VOC Removal%
I certify that, to the best of my knowledge and belief, the information submitted in this DWQ-certified laboratory. I am aware that there are significant penalties for submittii		
Toward-certified laboratory. I am aware that there are significant penalties for submitting	ing raise information, including the possibility c. thes	A TO A TOWN TO A
Garland Hilliard - Director, Environmental Remediation	XILLE	XXIII 2113/17

Permittee (or Authorized Agent) Name and Title - Please print or type

GROUNDWATER QUALITY MOI	NITORING:		nd 1 copy to:		FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (91)	9) 733-3221
FACILITY INFORMATION	Please Print Cle	arly or Type		•	Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Co	orporation Site				9 UIC	
Permit Name (if different):				IPDES	Other	
Facility Address: Domino Drive			т	YPE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltratio	n Gallery
(City)	(State) (Zip)	-		☐ Spray Field	Remediation: Ground	lwater
Contact Person: Garland Hilliard		Telephone#: 423.336.447	9	☐ Rotary Distributor	☐ Land Application of Slu	ıdge
Well Location/Site Name:		No. of wells to be sampled:	:	☐ Water Source Heat Pu	mp Other:	
			(from Permit)			
SAMPLING INFORMATION	1/V/ 33D	Date sample collected: 10/4	1/16	FIELD ANALYSES:		If WELL WAS
WELL ID NUMBER (from Permit): Number (from Permit): 85.73 ft.	177-220	Well Diameter: 2		pH 4.29 units	Temp17.83_°C	DRY at
Well Depth: 85.73 ft. Depth to Water Level: 66.47 ft. belo	managerina maint	Screened Interval: 75.7				time of
				Odor None	<u> </u>	sampling
Measuring Point isft. above Volume of water pumped/bailed before s		Relative M.P. Elevation: 44	10.20 IL	Appearance Clear	•	check here:
Samples for metals were collected unfil		NO and field acidified: YES	Пио	Appearance Clear		
LABORATORY INFORMATION	itered. Li 1E5 Li	NO and field acidified. Li 123				
Date sample analyzed: 10/12/16		Laboratory Name: Test Am	nerica	C	ertification No. 269	
PARAMETERS NOTE: Values shoul	d reflect dissolved and					
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid same	ples)	Orthophosphate	mg/l		unds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum		TCL Pesticides - R	lesults attached	
pH (when analyzed)	units	Ba - Barium	mg/l			
TOC	mg/l	Ca - Calcium	mg/l			
Chloride		Cd - Cadmium	mg/l			_
Arsenic		Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC, C	GC/MS, HPLC)	
Phenol	mg/l	Fe - Iron	mg/l	(Specify test and met	thod #. ATTACH LAB REPOR	Г.)
Sulfate	mg/l	Hg - Mercury	mg/l	Report Attached?		
Specific Conductance	μMhos	K - Potassium	mg/l		, method # <u>8081B / 8082</u>	
Total Ammonia (Ammonia Nitrogen; NH3 as N; Ammonia Nitrogen)	mg/l	Mg - Magnesium	mg/l		, method #	7 TO 10 TO 1
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attac		nfluent Total VOCs:	_mg/L Effluer		mg/L VOC Remova	
I certify that, to the best of my knowledge and bell DWQ-certified laboratory. I am aware that there a					ising approved methods of analysis by	а
Garland Hilliard - Director, Enviro			1/1/		2/13/	17
Permittee (or Authorized Agent) Name and Title			ture of Permittee for	Authorized Agent)	(Date)	m.

FACILITY INFORMATION Please Print Clear	y or Type	DI	ERMIT Number:	Expiration Date: 05/31/18	3
Facility Name: Geigy Chemical Corporation Site			on-Discharge WQ000994	19 UIC	
Permit Name (if different):			PDES	Other	
Facility Address: Domino Drive				RATION BEING MONITORED	
Aberdeen (Sireet) NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City) (State) (Zip)		_	☐ Spray Field	Remediation: Groundy	
Contact Person: Garland Hilliard	Telephone#: 423.336.4479		☐ Rotary Distributor		1 200
Well Location/Site Name:				ımp Other:	
VVCII Eddation One Name.	(from F	ermit)			
SAMPLING INFORMATION			FIELD ANALYOES		If WELL WAS
WELL ID NUMBER (from Permit): MW-23D	Date sample collected: 10/4/16		FIELD ANALYSES:	T 17 24 %C	DRY at
Well Depth: <u>87.96</u> ft.	Well Diameter: 2 in. Screened Interval: 77.9 ft.	4- 87 0 4	pH <u>4.41</u> units	Temp. <u>17.24</u> °C <u>26 μMhos</u>	time of
Depth to Water Level: 66.95 ft. below measuring point					sampling
Measuring Point isft. above land surface	Relative M.P. Elevation: 455.22 allons	<u>.</u> π.	Odor None Appearance Clea	-	check here:
	alions IO and field acidified: ☐ YES ☐	l NO	Appearance Clea		licio.
LABORATORY INFORMATION	and field acidified. The test	INO			
Date sample analyzed: 10/12/16	Laboratory Name: Test America	1	C	Certification No. 269	
PARAMETERS NOTE: Values should reflect dissolved and					
CODmg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid samples)	Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Totalmg/l	Al - Aluminum		TCL Pesticides - R	Results attached	_
pH (when analyzed)units	Ba - Barium				_
TOCmg/l	Ca - Calcium				
Chloridemg/l	Cd - Cadmium				_
Arsenicmg/l	Chromium: Total				_
Grease and Oilsmg/l	Cu - Copper		ORGANICS: (by GC,		
Phenolmg/l	Fe - Iron		The state of the s	thod #. ATTACH LAB REPORT.	.)
Sulfatemg/l	Hg - Mercury		Report Attached?		
Specific ConductanceµMhos	K - Potassium		The state of the s	, method # <u>8081B / 8082A</u>	
Total Ammoniamg/l (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mg - Magnesium			, method #	
	Mn - Manganese			, method #	
TKN as Nmg/l	Ni - Nickel	mg/l		, method #	_
For Remediation Systems Only (Attach Lab Reports): Int	fluent Total VOCs:mg/l	Effluent	t Total VOCs:	mg/L VOC Removal	%
I certify that, to the best of my knowledge and belief, the information submitted in	this report is true, accurate, and complete, and th	at the laborato	ry analytical data was produced t		100
DWQ-certified laboratory. I am aware that there are significant penalties for subr					

GROUNDWATER QUALITY MONITO COMPLIANCE REPORT FORM	ORING:		d 1 copy to:		FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919	9) 733-3221
FACILITY INFORMATION	Please Print Clea	arly or Type	PE	ERMIT Number:	Expiration Date: 05/31/1	8
Facility Name: Geigy Chemical Corpo	ration Site		No	on-Discharge WQ000994		
Permit Name (if different):			The state of the s	PDES	Other	
Facility Address: Domino Drive			T	PE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	n Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	lwater
Contact Person: Garland Hilliard		Telephone#: _423.336.4479	9	☐ Rotary Distributor	☐ Land Application of Slu	dge
Well Location/Site Name:		No. of wells to be sampled:			mp Other:	
CAMPI INC INCORMATION			(from Permit)			If WELL
<u>SAMPLING INFORMATION</u> WELL ID NUMBER (from Permit): <u>MW-</u>	26D	Date sample collected: 10/4	/16	FIELD ANALYSES:		WAS
Well Depth: 27.35 ft.		Well Diameter: 2	The state of the s	pH 4.35 units	Temp17.69 °C	DRY at
Depth to Water Level: 6.66 ft. below m	easuring point	Screened Interval: 17.3		Spec. Cond.	46 μMhos	time of
Measuring Point isft. above la		Relative M.P. Elevation: 37	- Company of the Comp	Odor None		sampling check
Volume of water pumped/bailed before samp		gallons		Appearance Clear		here:
Samples for metals were collected unfiltere		NO and field acidified: YES	□NO			
LABORATORY INFORMATION	A 100 100 100 100 100 100 100 100 100 10	Tool And			260	
Date sample analyzed: 10/12/16 PARAMETERS NOTE: Values should re	floot dissolved and	Laboratory Name: Test Am	erica	C	ertification No. 269	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid samples)		Orthophosphate		Other (Specify Compo	unds and Concentration Units):	
Dissolved Solids: Total	ma/l	Al - Aluminum		TCL Pesticides - R		
pH (when analyzed)		Ba - Barium				
TOC		Ca - Calcium				
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper		ORGANICS: (by GC, C	GC/MS, HPLC)	
Phenol		Fe - Iron			hod #. ATTACH LAB REPORT	Г.)
Sulfate		Hg - Mercury		Report Attached?		
Specific Conductance	μMhos	K - Potassium		Pest & Biphenyls	, method # 8081B / 8082	A
Total Ammonia	mg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, To	otal)	Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
For Remediation Systems Only (Attach La			_mg/L Effluent		mg/L VOC Remova	
I certify that, to the best of my knowledge and belief, th DWQ-certified laboratory. I am aware that there are sig					sing approved methods of analysis by	a
		0	1911		2/13	10
Garland Hilliard - Director, Environme	ALIGNICAL PROPERTY AND ADDRESS OF THE PARTY		ure of Permittee (or A	uthorized Agent)	(Date)	///

remittee (or Authorized Agent) Name and Title - Please print or t

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INF 1617 MAIL SERVICE CENTER, RAL	& NATURAL RESOURCES ORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919) 733-3221
	ase Print Clearly or Type		PERMIT Number:	Expiration Date: 05/31/1	8
Facility Name: Geigy Chemical Corporation S	ite		Non-Discharge WQ000994	9 UIC	
Permit Name (if different):			NPDES	Other	
Facility Address: Domino Drive			TYPE OF PERMITTED OPER	RATION BEING MONITORED	
Aberdeen (Street) NC	28315 County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City) (State)	(Zip)		☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard	Telephone#: _423.336.	.4479	☐ Rotary Distributor	☐ Land Application of Sluc	
Well Location/Site Name:	No. of wells to be sam	npled:	The state of the s	mp Other:	
		(from Permit)			larram :
SAMPLING INFORMATION		10/4/16	FIELD ANALYSES		If WELL WAS
WELL ID NUMBER (from Permit): MW-30D	Date sample collected:		FIELD ANALYSES:	± 16.02.00	DRY at
Well Depth: 75.38 ft.	Well Diameter:		pH <u>3.53</u> units	Temp. <u>16.92</u> °C 76 μMhos	time of
Depth to Water Level:58.45 ft. below measuring		65.3 ft. to 75.3 ft			sampling,
Measuring Point isft. above land surface		451.25 ft.	Odor None		check
Volume of water pumped/bailed before sampling:	The state of the s	v== □.ue	Appearance Clear		here:
Samples for metals were collected unfiltered: YE	S NO and field acidified:	YES LINO			
LABORATORY INFORMATION Date sample analyzed: PEST 10/12/16, TCE 10/	13/16 Laboratory Name: Tes	t America	Ce	ertification No. 269	
PARAMETERS NOTE: Values should reflect diss	solved and colloidal concentrations.				
COD mg	/I Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal /10	Oml Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total /10	0ml Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)	Orthophosphate		Other (Specify Compou	and Concentration Units):	
Dissolved Solids: Totalmg			TCL Pesticides - R	Results attached	
pH (when analyzed)uni		mg/l	TCE - Results attac	ched	
TOCmg					
Chloridemg					
Arsenicmg					
Grease and Oilsmg		mg/l	ORGANICS: (by GC, G	GC/MS, HPLC)	
Phenolmg		mg/l	(Specify test and met)	hod #. ATTACH LAB REPORT	.)
Sulfatemg		mg/l	Report Attached?		
Specific ConductanceµM		mg/l	VOC		
Total Ammonia mo				, method # 8081B / 8082A	4
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	Control of the Contro
TKN as Nmg		mg/l		, method #	
For Remediation Systems Only (Attach Lab Repor				mg/L VOC Remova	
I certify that, to the best of my knowledge and belief, the informatic DWQ-certified laboratory. I am aware that there are significant pe				sing approved methods of analysis by a	a
		0/9/	1778//	1 2/10	117
Garland Hilliard - Director, Environmental Re Permittee (or Authorized Agent) Name and Title - Please print or		Signature of Permittee (or	Authorized Agent)	(Date)	11/
remittee (or Authorized Agent) Name and Title - Please print or	type	Cignature of Fermittee (Of	ridulotized rigetit)	(Date)	

GROUNDWATER QUALITY MON COMPLIANCE REPORT FORM	IITORING:		and 1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (9:	19) 733-3221
FACILITY INFORMATION	Please Print Cl	learly or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Co	rporation Site				49 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OPE	ERATION BEING MONITORED)
Aberdeen (Street)	NC 28315	5 County Moore		☐ Lagoon	☐ Remediation: Infiltration	on Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Groun	dwater
Contact Person: Garland Hilliard		Telephone#: 423.336	.4479	☐ Rotary Distributor	☐ Land Application of SI	
Well Location/Site Name:				☐ Water Source Heat P	ump Other:	
SAMPLING INFORMATION			(Marine)			If WELL
WELL ID NUMBER (from Permit): M	W-22L			FIELD ANALYSES:		WAS
Well Depth: 145.20 ft.		Well Diameter:		pH <u>3.89</u> units	Temp19.54 °C	DRY at time of
Depth to Water Level: 68.34 ft. below			135 ft. to 145	t. Spec. Cond.	49 μMhos	sampling,
Measuring Point isft. abov		Relative M.P. Elevation:	449.51 ft.	Odor None		check
Volume of water pumped/bailed before sa	The state of the s			Appearance Clea	r	here:
Samples for metals were collected unfile	tered: YES	□ NO and field acidified: □	YES NO	Allower the second seco		
LABORATORY INFORMATION Date sample analyzed: 10/12/16		Laboratory Name: Tes	t America		Certification No. 269	
PARAMETERS NOTE: Values should		nd colloidal concentrations. Nitrite (NO ₂) as N	n	Pb - Lead	ma/l	
COD	mg/l		mg/l	Zn - Zinc	mg/l mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	ZII - ZIIIC		
Coliform: MF Total (Note: Use MPN method for highly turbid samp	/100ml	Phosphorus: Total as P		Other (Specify Comm	ounds and Concentration Units	
		Orthophosphate		TCL Pesticides -	ounds and Concentration Units)	
Dissolved Solids: Total		Al - Aluminum		TOL PESIICIDES -	inesuits attached	
pH (when analyzed)			mg/l			
TOC			mg/l			
Chloride		Cd - Cadmium				
Arsenic	mg/l mg/l	Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS_HPLC)	
Grease and Oils			mg/l		thod #. ATTACH LAB REPOR	RT.)
Phenol Sulfate			mg/l	Report Attached?		,
Specific Conductance		K - Potassium		The state of the s	, method # 8081B / 8082	2A
Total Ammonia	mg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitrog		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
For Remediation Systems Only (Attack					mg/L VOC Remov	
I certify that, to the best of my knowledge and belied DWQ-certified laboratory. I am aware that there a						ya
			0/9/	1/4///	/	-10
Garland Hilliard - Director, Enviror		on	Alle Sansture of Course	Authorized Agent's	(Deta)	3/17

Permittee (or Authorized Agent) Name and Title - Please print or type GW-59 Rev. 1/2007

GROUNDWATER QUALITY MOI COMPLIANCE REPORT FORM	NITORING:		d 1 copy to: DIV		I & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (919) 733-3221
FACILITY INFORMATION	Please Print Clear	dy or Type			Expiration Date: 05/31/1	
Facility Name: Geigy Chemical Co	rporation Site		The second secon		49 UIC	
Permit Name (if different):				DES	Other	
Facility Address: Domino Drive			TY	PE OF PERMITTED OPE	ERATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City)	(State) (Zip)			Spray Field	Remediation: Ground	water
Contact Person: Garland Hilliard		Telephone#: _423.336.4479		Rotary Distributor	☐ Land Application of Slu	dge
Well Location/Site Name:		No. of wells to be sampled:		Water Source Heat Pr	ump Other:	
			(from Permit)			If WELL
SAMPLING INFORMATION WELL ID NUMBER (from Permit): <u>M</u>	IW-25I	Date sample collected: 10/5/	/16	FIELD ANALYSES:		WAS
Well Depth: 74.60 ft.	11 202	Well Diameter: 2	Control of the Contro	pH 4.59 units	Temp17.54_°C	DRY at
Depth to Water Level: 25.00 ft. belo	w measuring point	Screened Interval: 64.6	M. S.	Spec. Cond.		time of
Measuring Point isft. above		Relative M.P. Elevation: 38	A Commence of the Commence of	Odor None		sampling, check
Volume of water pumped/bailed before s		gallons		Appearance Clea	r	here:
Samples for metals were collected unfil		NO and field acidified: YES	□NO			
LABORATORY INFORMATION					200	
Date sample analyzed: 10/12/16	1 - 0 - 4 - 1 1 1 1	Laboratory Name: Test Ame	erica		Certification No. 269	
PARAMETERS NOTE: Values shoul COD	mg/l	Nitrite (NO ₂) as N	mg/l	Ph. Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
		Phosphorus: Total as P		211 - 21110		7
Coliform: MF Total (Note: Use MPN method for highly turbid same	/100ml	Orthophosphate		Other (Specify Compo	ounds and Concentration Units):	
				TCL Pesticides - F		
Dissolved Solids: Total		Al - Aluminum		TOL T esticides - 1	Could attached	_
pH (when analyzed)		Ba - Barium	mg/l			
TOC		Ca - Calcium Cd - Cadmium				
Chloride		Chromium: Total				
Arsenic Grease and Oils	ng/l	Cu - Copper		ORGANICS: (by GC,	GC/MS_HPLC)	
Phenol	mg/l	Fe - Iron			thod #. ATTACH LAB REPORT	
Sulfate	mg/l	Hg - Mercury		Report Attached?		-,
Specific Conductance	μMhos	K - Potassium		The state of the s	, method # 8081B / 8082/	A
		Mg - Magnesium		A STATE OF THE PARTY OF THE PAR	, method #	
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrog	gen, Total)	Mn - Manganese			, method #	
TKN as N		Ni - Nickel			, method #	
For Remediation Systems Only (Attac	h Lab Reports):	fluent Total VOCs:	mg/L Effluent	Total VOCs:	mg/L VOC Remova	l%
I certify that, to the best of my knowledge and beli	ef, the information submitted in					а
DWQ-certified laboratory. I am aware that there a	re significant penalties for sub-	mitting false information, including the possib	pility of fines and impri	somment for knowing violations		2
Garland Hilliard - Director, Enviro	nmental Remediation		Xall.	THE	2/13	3/17
Permittee (or Authorized Agent) Name and Title			ure of Permittee (or AL	ithorized Agent)	(Date)	

GROUNDWATER QUALITY MONITOR	RING:		Mail original and 1 copy to:		INFORMATION PROCESSING UNIT	
COMPLIANCE REPORT FORM	Bloom Brief City				RALEIGH, NC 27699-1617 Phone: (91	
FACILITY INFORMATION	Please Print Clearly	or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Corpora					949 UIC	
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OP	PERATION BEING MONITORED	
1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	
X-1//	ate) (Zip)			Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336	.4479	Rotary Distributor		the state of the s
Well Location/Site Name:		No. of wells to be sam	npled:	☐ Water Source Heat F	Pump Other:	
SAMPLING INFORMATION						If WELL
WELL ID NUMBER (from Permit): MW-27	<u>L</u>	Date sample collected:		FIELD ANALYSES:		WAS
Well Depth: 86.54 ft.		Well Diameter:		pH <u>3.09</u> units	The state of the s	DRY at time of
Depth to Water Level: 31.60 ft. below mea	suring point	Screened Interval:	76.5 ft. to 86.5	· · · · · · · · · · · · · · · · · · ·	75 μMhos	sampling,
Measuring Point isft. above land	surface	Relative M.P. Elevation:	397.13 ft.	Odor None		check
Volume of water pumped/bailed before samplin				Appearance Cle	ar	here:
Samples for metals were collected unfiltered:	☐YES ☐ NO	and field acidified:	YES NO			
LABORATORY INFORMATION Date sample analyzed: 10/26/16		Laboratory Name: Tes	st America		Certification No. 269	
PARAMETERS NOTE: Values should refle	ct dissolved and co					
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Total	 /100ml P	Phosphorus: Total as P	mg/l			
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Other (Specify Comp	oounds and Concentration Units)	:
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	TCL Pesticides -	Results attached	
pH (when analyzed)		Ba - Barium	mg/l			
тос	mg/l		mg/l			
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper	mg/l	ORGANICS: (by GC	, GC/MS, HPLC)	
Phenol			mg/l		ethod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l		mg/l		▼ Yes (1) □ No (0)	
Specific Conductance	μMhos		mg/l		, method # <u>8081B / 8082</u>	2A_
Total Ammonia	 mg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Total	0	Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel			, method #	
For Remediation Systems Only (Attach Lab		uent Total VOCs:		ent Total VOCs:	mg/L VOC Remov	
I certify that, to the best of my knowledge and belief, the in DWQ-certified laboratory. I am aware that there are signif	nformation submitted in th	nis report is true, accurate, and con	mplete, and that the labor	etun analyikal date was produced	d using approved methods of analysis by	/a
DVVQ-certified laboratory. I am aware that there are signif	licant penalties for submit	tung raise information, including the		Violation Violation		1-
Garland Hilliard - Director, Environment		(XXIV	you	2/13	3117
Permittee (or Authorized Agent) Name and Title - Please	print or type		Signature of Permittee (d	or Authorized Agent)	(Date)	

GROUNDWATER QUALITY MO COMPLIANCE REPORT FORM					LEIGH, NC 27699-1617 Phone: (91	
FACILITY INFORMATION	Please Print Clear	ly or Type	Mark Control of the C	ERMIT Number:	Expiration Date: 05/31/	
Facility Name: Geigy Chemical C	Corporation Site		No	on-Discharge WQ000994	49 UIC	
Permit Name (if different):			N	PDES	Other	
Facility Address: Domino Drive		The second secon		PE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	☐ Remediation: Infiltration	n Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	dwater
Contact Person: Garland Hilliard		Telephone#: 423.336.4479	9	☐ Rotary Distributor	☐ Land Application of Sli	udge
Well Location/Site Name:		No. of wells to be sampled:		☐ Water Source Heat Pu	ump Other:	
SAMPLING INFORMATION		.*	(from Permit)			If WELL
WELL ID NUMBER (from Permit):	MW-31L	Date sample collected: 10/1	9/16	FIELD ANALYSES:		WAS
Well Depth: 22.0 ft.		Well Diameter: 2	_in.	pH <u>3.44</u> units	Temp. <u>23.91</u> °C	DRY at
Depth to Water Level: 1.74 ft. be	low measuring point	Screened Interval: 12.0	ft. to 22. ft.	Spec. Cond.		time of sampling
Measuring Point isft. ab		Relative M.P. Elevation: 33	32.68 ft.	Odor None		check
Volume of water pumped/bailed before		gallons	·	Appearance Clea	r	here:
Samples for metals were collected un	filtered: YES	NO and field acidified: YES	□NO			
LABORATORY INFORMATION						
Date sample analyzed: 10/26/16		Laboratory Name: Test Am	ierica		Certification No. 209	
PARAMETERS NOTE: Values show		Nitrite (NO ₂) as N	ma/l	Dh. Lead	mg/l	
	mg/l /100ml	Nitrate (NO ₃) as N	mg/l mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal				ZII - ZIIIC	1119/1	
Coliform: MF Total (Note: Use MPN method for highly turbid sa	/100ml	Phosphorus: Total as P		Oth /Sif : C	da and Canadastian Heita	
		Orthophosphate			ounds and Concentration Units)	
Dissolved Solids: Total		AI - Aluminum		TCL Pesticides - R	Results attached	
pH (when analyzed)		Ba - Barium				<u> </u>
- Promote Hard Control of the Contro	mg/l	Ca - Calcium				
Chloride		Cd - Cadmium		en en e		
Arsenic		Chromium: Total				
Grease and Oils		Cu - Copper		ORGANICS: (by GC,		
Phenol		Fe - Iron			thod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l	Hġ - Mercury		Report Attached?		
Specific Conductance	µMhos	K - Potassium			, method # <u>8081B / 8082</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nit	mg/l	Mg - Magnesium			, method #	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Atta			_mg/L Effluent		mg/L VOC Remov	
I certify that, to the best of my knowledge and b DWQ-certified laboratory. I am aware that there						ra
			19/10	A Control of the Cont	/	21.7
Garland Hilliard - Director, Envir			ure of Permittee (or A	The Comments	(Date)	3/17

rmittee (or Authorized Agent) Name and Title - Please print of t

GROUNDWATER QUALITY MONITO	ORING:		nd 1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919)	733-3221
FACILITY INFORMATION	Please Print Clea	arly or Type			Expiration Date: 05/31/18	
Facility Name: Geigy Chemical Corpor	ration Site				19 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive				The second secon	RATION BEING MONITORED	
Aberdeen (Steet)	NC 28315	County Moore		□ Lagoon	Remediation: Infiltration	Gallery
(City)	State) (Zip)			☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336.447	79	☐ Rotary Distributor		
Well Location/Site Name:		No. of wells to be sampled	:		ump Other:	
			(from Permit)			
SAMPLING INFORMATION WELL ID NUMBER (from Permit): MW-3	321	Date sample collected: 10/	19/16	FIELD ANALYSES:		If WELL WAS
Well Depth: 26.99 ft.		Well Diameter: 2		pH 3.82 units	Temp19.53 °C	DRY at
Depth to Water Level: 3.97 ft. below me	easuring point	Screened Interval: 16.9	the state of the s			time of
Measuring Point isft. above lar		The second secon	The state of the s	Odor None		sampling,
Volume of water pumped/bailed before samp					r	here:
Samples for metals were collected unfiltered		NO and field acidified: YES	□NO	- Olea		
LABORATORY INFORMATION						
Date sample analyzed: 10/26/16		Laboratory Name: Test An	nerica		Certification No. 269	
PARAMETERS NOTE: Values should ref		I colloidal concentrations. Nitrite (NO ₂) as N	mr = 11	Dh. Lood	ma/l	
Coliform: ME Focal	mg/l /100ml		mg/l	Pb - Lead Zn - Zinc	mg/l mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	ZII - ZIIIC	mig/i	
Coliform: MF Total (Note: Use MPN method for highly turbid samples)	/100ml	Phosphorus: Total as P		Other (Carrier C	undo and Consentation II it	
		Orthophosphate		TCL Pesticides - F	ounds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum		TOL FESTICIOES - F	results attached	
pH (when analyzed)		Ba - Barium	mg/l			_
TOC		Ca - Calcium				-
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total		ORGANICS: (by GC,	GC/MS_HPLC)	
Grease and Oils		Cu - Copper			thod #. ATTACH LAB REPORT.	1
Phenol	mg/l	Fe - Iron		Report Attached?		.)
SulfateSpecific Conductance	mg/l μ M hos	Hg - Mercury K - Potassium			, method # 8081B / 8082A	\
					, method #	
Total Ammonia (Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, To	ital)	Mg - Magnesium Mn - Manganese			, method #	
TKN as N		Ni - Nickel			, method #	
TRIN do IN						
For Remediation Systems Only (Attach La				t Total VOCs:	mg/L VOC Removal	
I certify that, to the best of my knowledge and belief, the						
DWQ-certified laboratory. I am aware that there are sig	niticant penalties for sul	omitting false information, including the poss	sibility of fines and mip	risons are for knowing violations		
Garland Hilliard - Director, Environme			MAT		2/13/1	7
Permittee (or Authorized Agent) Name and Title - Plea	se print or type	Signa	ature of Permittee (of A	Authorized Agent)	(Date)	7-1-1

GROUNDWATER QUALITY M COMPLIANCE REPORT FOR			Mail original and 1 copy to:		IT & NATURAL RESOURCES NFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (91)	9) 733-3221
FACILITY INFORMATION	Please Print Clear	y or Type		PERMIT Number:	Expiration Date: 05/31/1	
Facility Name: Geigy Chemical	Corporation Site				49 UIC	
Permit Name (if different):			The same of the sa	NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OPI	ERATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		☐ Lagoon	Remediation: Infiltration	n Gallery
(City)	(State) (Zip)			☐ Spray Field	Remediation: Ground	lwater
Contact Person: Garland Hilliard		Telephone#: _423.336.	4479	☐ Rotary Distributor	☐ Land Application of Slu	idge
Well Location/Site Name:			pled:	☐ Water Source Heat P	ump Other:	
SAMPLING INFORMATION			(from Permit)			If WELL
WELL ID NUMBER (from Permit):	MW-36L	Date sample collected:	10/4/16	FIELD ANALYSES:		WAS
Well Depth: 106.0 ft.		Well Diameter:	<u>2</u> in.	pH <u>4.40</u> units	Temp17.06_°C	DRY at
Depth to Water Level: 36.40 ft. b	elow measuring point	Screened Interval:	96.0 ft. to 106	ft. Spec. Cond.	19_μMhos	time of sampling,
Measuring Point isft. a		Relative M.P. Elevation:	414.18 ft.	Odor None		check
Volume of water pumped/bailed befor		allons		Appearance Clea	ir	here:
Samples for metals were collected un	nfiltered: YES N	O and field acidified:	YES NO			
LABORATORY INFORMATION		Laboratory Name: Tes	t America		Certification No. 269	
Date sample analyzed: 10/12/16 PARAMETERS NOTE: Values sho	ould reflect dissolved and		America		Certification No. 200	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l		mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	-		
(Note: Use MPN method for highly turbid s		Orthophosphate		Other (Specify Comp	ounds and Concentration Units):	
Dissolved Solids: Total	mg/l	Al - Aluminum	A STATE OF THE PARTY OF THE PAR	TCL Pesticides - I	Results attached	
pH (when analyzed)		Ba - Barium				
	mg/l	Ca - Calcium	mg/l			
Chloride		Cd - Cadmium	mg/l			
Arsenic		Chromium: Total				
Grease and Oils			mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
	mg/l	Fe - Iron			ethod #. ATTACH LAB REPORT	Г.)
Sulfate		Hg - Mercury	mg/l	Report Attached?	X Yes (1) □ No (0)	
Specific Conductance	μMhos	K - Potassium			, method # <u>8081B / 8082</u>	<u>A</u>
Total Ammonia	ma/l	Mg - Magnesium	mg/l		, method #	
(Ammonia Nitrogen; NH ₃ as N; Ammonia N	litrogen, Total)	Mn - Manganese	mg/l		, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	_
For Remediation Systems Only (Att		luent Total VOCs:			mg/L VOC Remova	
I certify that, to the best of my knowledge and						
DWQ-certified laboratory. I am aware that the	re are significant penalties for subn	nitting false information, including the	possibility of fines and	no iscument for knowing violations	,	,
Garland Hilliard - Director, Envi	ironmental Remediation		Yell	MEN	2/13/	17
Permittee (or Authorized Agent) Name and T	itle - Please print or type		Signature of Permittee (c	or Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONIT COMPLIANCE REPORT FORM	FORING:		1 copy to:		T & NATURAL RESOURCES IFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (9:	19) 733-3221
FACILITY INFORMATION	Please Print Clea	rly or Type		ERMIT Number:	05/04	
Facility Name: Geigy Chemical Corp	oration Site				49 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive					ERATION BEING MONITORED)
Aberdeen (Street)	NC 28315	County Moore		Lagoon	Remediation: Infiltration	
(City)	(State) (Zip)	oculty Meeter		☐ Spray Field	Remediation: Groun	and the second second
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		Rotary Distributor	☐ Land Application of SI	
Moll Leastion/Site Name:		No. of wells to be sampled:			ump Other:	
Well Location/Site Name:		No. of wells to be sampled.	from Permit)	— Water Gource Fleat F	amp — other.	
SAMPLING INFORMATION		10/5/	40			If WELL
WELL ID NUMBER (from Permit): MW	/-37L	Date sample collected: 10/5/		FIELD ANALYSES:	40.00.00	WAS DRY at
Well Depth: 46.18 ft.		Well Diameter: 2 i		pH <u>4.39</u> units	Temp. 16.89 °C	time of
Depth to Water Level:11.00 ft. below		Screened Interval: 36.1 f		The state of the s	32 μMhos	sampling,
Measuring Point isft. above		Relative M.P. Elevation: 354	4.86 ft.	Odor None		check
Volume of water pumped/bailed before san		gallons	_	Appearance Clea	<u>r</u>	here:
Samples for metals were collected unfilter	red: YES	NO and field acidified: YES	□NO			
LABORATORY INFORMATION		Laboratory Name: Test Ame	rica		Certification No. 269	
Date sample analyzed: 10/12/16 PARAMETERS NOTE: Values should r	reflect dissolved and		ilica		Sertification No	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid samples		Orthophosphate		Other (Specify Compo	ounds and Concentration Units)	i-
		The second secon	the state of the s	TCL Pesticides - F	manufacture of the contraction o	,.
Dissolved Solids: Total		AI - Aluminum		TOE T COLIOIGES T	vesaris attached	
pH (when analyzed)		Ba - Barium				 -
тос		Ca - Calcium				
Chloride		Cd - Cadmium				 -
Arsenic		Chromium: Total		ORGANICS: (by GC,	CC/MC HDI C\	
Grease and Oils		Cu - Copper				× ×
Phenol		Fe - Iron			thod #. ATTACH LAB REPOR	(1.)
Sulfate	mg/l	Hg - Mercury		Report Attached?		2.4
Specific Conductance	μMhos	K - Potassium			, method # <u>8081B / 8082</u>	
Total Ammonia	mg/l	Mg - Magnesium			, method #	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attach I			mg/L Effluent		mg/L VOC Remov	
I certify that, to the best of my knowledge and belief, DWQ-certified laboratory. I am aware that there are	the information submitted i	n this report is true, accurate, and complete, a	ind that the laborator	ry analytical data was produced	using approved methods of analysis b	ya
			19/19		0/	-1-
Garland Hilliard - Director, Environn		The state of the s	Kel le		(Date)	5///
Permittee (or Authorized Agent) Name and Title - P	lease print or type	Signatur	re of Rermittee (or A	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-INI 1617 MAIL SERVICE CENTER, RA	& NATURAL RESOURCES FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (91)	9) 733-3221
	nt Clearly or Type		PERMIT Number:	Expiration Date: 05/31/1	18
Facility Name: Geigy Chemical Corporation Site			Non-Discharge WQ000994	9 UIC	
Permit Name (if different):			NPDES	Other	
Facility Address: Domino Drive				RATION BEING MONITORED	
	315 County Moore		Lagoon	Remediation: Infiltration	
(City) (State) (Zip			☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard	Telephone#: 423,336	4479	Rotary Distributor	The state of the s	
Well Location/Site Name:				mp Other:	auge
vveii Location/Site Name.	140. Of Wells to be sain	(from Permit)	— Water Course Fleat Fu		
SAMPLING INFORMATION WELL ID NUMBER (from Permit): MW-38L	Date sample collected:	10/19/16	FIELD ANALYSES:		If WELL WAS
Well Depth: 28.14 ft.	Well Diameter:		pH <u>4.25</u> units	Temp. <u>20.05</u> °C	DRY at
Depth to Water Level: 9.58 ft. below measuring point	Screened Interval:	18.1 ft. to 28.1	ft. Spec. Cond.		time of sampling,
Measuring Point isft. above land surface	Relative M.P. Elevation:	327.30 ft.	Odor None		check
Volume of water pumped/bailed before sampling:	4 gallons		Appearance Clear	r	here:
Samples for metals were collected unfiltered: YES	☐ NO and field acidified: ☐	YES NO			
LABORATORY INFORMATION		4 Ai		260	
Date sample analyzed: 10/26/16 PARAMETERS NOTE: Values should reflect dissolved	Laboratory Name: Tes	it America	C	ertification No. 269	
COD mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total /100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid samples)	Orthophosphate		Other (Specify Compo	unds and Concentration Units):	
Discolved Colider Total mg/l	AI - Aluminum		TCL Pesticides - R		
Dissolved Solids: Totalmg/l			TOE T COMOIGES TO	codito ditabiled	
pH (when analyzed)units TOCg/l		mg/l mg/l			
TOCmg/l Chloridemg/l	Cd - Cadmium				
Arsenicmg/l	Chromium: Total		-		
Grease and Oilsmg/l	Cu - Copper		ORGANICS: (by GC, C	GC/MS_HPLC)	
		mg/l		hod #. ATTACH LAB REPORT	τ)
Phenolmg/l Sulfatemg/l		mg/l		▼ Yes (1) □ No (0)	
Specific ConductanceµMhos		mg/l		, method # <u>8081B / 8081</u>	Α
Total Ammoniamg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	A CONTRACTOR OF THE PARTY OF TH
TKN as Nmg/l		mg/l			
For Remediation Systems Only (Attach Lab Reports):	Influent Total VOCs:	mg/L Efflue		mg/L VOC Remova	al%
I certify that, to the best of my knowledge and belief, the information subn	nitted in this report is true, accurate, and con	nplete, and that the labora	atory analytical data was produced u	sing approved methods of analysis by	a
DWQ-certified laboratory. I am aware that there are significant penalties	for submitting false information, including the	e possibility of fines and in	nurisonment for knowing violations.		
Garland Hilliard - Director, Environmental Remedi	ation	411		2/13	10
Permittee (or Authorized Agent) Name and Title - Please print or type		Signature of Permittee (o	r Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		and 1 copy to:	EPARTMENT OF ENVIRONMENT IVISION OF WATER QUALITY-INF 617 MAIL SERVICE CENTER, RAL	& NATURAL RESOURCES FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (919)	733-3221
	ase Print Clearly or Type	T _F	PERMIT Number:	Expiration Date: 05/31/18	3
Facility Name: Geigy Chemical Corporation S	ite			9 UIC	
Permit Name (if different):		the state of the s	IPDES	Other	
Facility Address: Domino Drive		i i	YPE OF PERMITTED OPER	RATION BEING MONITORED	
Aberdeen (Street) NC	28315 County Moore		☐ Lagoon	Remediation: Infiltration	Gallery
(City) (State)	(Zp)		☐ Spray Field	Remediation: Groundy	vater
Contact Person: Garland Hilliard	Telephone#: _423.336	5.4479	☐ Rotary Distributor	☐ Land Application of Slud	
Well Location/Site Name:			☐ Water Source Heat Pur	mp Other:	
SAMPLING INFORMATION					If WELL
WELL ID NUMBER (from Permit): MW-39L	Date sample collected:	10/19/16	FIELD ANALYSES:		WAS
Well Depth: 20.29 ft.	Well Diameter:	2 in.	pH <u>3.99</u> units	Temp. <u>23.16</u> °C	DRY at time of
Depth to Water Level: 3.97 ft. below measuring	point Screened Interval:	10.2 ft. to 20.2 ft	t. Spec. Cond.	62 μMhos	sampling.
Measuring Point isft. above land surfac	e Relative M.P. Elevation:	389.86 ft.	Odor None		check
Volume of water pumped/bailed before sampling:			Appearance Clear	·	here:
Samples for metals were collected unfiltered: YE	S NO and field acidified:	YES NO			
LABORATORY INFORMATION Date sample analyzed: 10/26/16	Laboratory Name: Tes	st America	Ce	ertification No. 269	
PARAMETERS NOTE: Values should reflect diss			- · · ·		
CODmg.		mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal/10			Zn - Zinc	mg/l	
Coliform: MF Total/10	The state of the s				
(Note: Use MPN method for highly turbid samples)	Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Totalmg			TCL Pesticides - R	esults attached	
pH (when analyzed)uni	The state of the s				_
TOCmg	/I Ca - Calcium	mg/l			_
Chloridemg	/I Cd - Cadmium	mg/l			
Arsenicmg	/I Chromium: Total	mg/l			_
Grease and Oilsmg	/I Cu - Copper	mg/l	ORGANICS: (by GC, G		
Phenolmg	/I Fe - Iron	mg/l		hod #. ATTACH LAB REPORT.)
Sulfatemg		mg/l	The state of the s	Yes (1) No (0)	
Specific ConductanceµM	hos K - Potassium	mg/l	Pest & Biphenyls	, method # <u>8081B / 8082A</u>	<u>. </u>
Total Ammoniamg				, method #	
(Ammonia Nitrogen; NH ₃ as N; Ammonia Nitrogen, Total)	Mn - Manganese			, method #	_
TKN as Nmg	/I Ni - Nickel	mg/l		, method #	_ :
For Remediation Systems Only (Attach Lab Report			nt Total VOCs:	mg/L VOC Removal	
I certify that, to the best of my knowledge and belief, the information				sing approved methods of analysis by a	
DWQ-certified laboratory. I am aware that there are significant per	names for submitting raise information, including tr		A John Marions	-1	1_
Garland Hilliard - Director, Environmental Re		Vake	AL/	2/13/	17
Permittee (or Authorized Agent) Name and Title - Please print or	type	Signature of Permittee for	Authorized Agent)	(Date)	

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM		1 copy to: DIVISION OF WATER	VIRONMENT & NATURAL RESOURCES QUALITY-INFORMATION PROCESSING UNIT ENTER, RALEIGH, NC 27699-1617 Phone: (9	019) 733-3221
Diago Drint	Clearly or Type	PERMIT Number:	05/04	
FACILITY INFORMATION Facility Name: Geigy Chemical Corporation Site		Non-Discharge W	The state of the s	
		NPDES	Other	
Permit Name (if different): Facility Address: Domino Drive			TED OPERATION BEING MONITORE	
10	15 County Moore	Lagoon	Remediation: Infiltrati	
Aberdeen (Sifeet) NC 283				
Garland Hilliard	Talankanan 423 336 4479	Rotary Distr	the state of the s	
	Telephone#: 423.336.4479	Weter Sour	ce Heat Pump Other:	
Well Location/Site Name:	No. of wells to be sampled:	rom Permit)	se neat Fulfip	
SAMPLING INFORMATION				If WELL
WELL ID NUMBER (from Permit): MW-40L				WAS DRY at
Well Depth: 27.76 ft.	Well Diameter: 2 in	•	41 units Temp. 18.72 °C	time of
Depth to Water Level:1.75 ft. below measuring point	the state of the s			sampling,
incasuring i citit isit. above land surface	Relative M.P. Elevation: 334		lone	check
Volume of water pumped/bailed before sampling:1	2.5 gallons		Cloudy	here:
Samples for metals were collected unfiltered: YES	□ NO and field acidified: □ YES	□NO		
LABORATORY INFORMATION Date sample analyzed: 10/26/16	Laboratory Name: Test Ame	rica	Certification No. 269	
PARAMETERS NOTE: Values should reflect dissolved				
COD mg/l	Nitrite (NO ₂) as N	mg/l Pb - Le	admg/l inc mg/l	
Coliform: MF Fecal /100ml	Nitrate (NO ₃) as N	mg/l Zn - Z	incmg/l	
Coliform: MF Total /100ml	Phosphorus: Total as P	mg/l		
(Note: Use MPN method for highly turbid samples)	Orthophosphate	mg/l Other (Spec	ify Compounds and Concentration Units	s):
Dissolved Solids: Totalmg/l	Al - Aluminum	mg/I TCL Pest	cides - Results attached	
pH (when analyzed)units	Ba - Barium	mg/l		
TOCmg/l	Ca - Calcium	mg/l		
Chloridemg/l	Cd - Cadmium			
Arsenicmg/l	Chromium: Total	mg/l		
Grease and Oilsmg/l	Cu - Copper		: (by GC, GC/MS, HPLC)	
Phenolmg/l	Fe - Iron		st and method #. ATTACH LAB REPOR	RT.)
Sulfatemg/l	Hg - Mercury	mg/I Report Atta	ched?	
Specific ConductanceµMhos	K - Potassium		enyls , method # <u>8081B / 808</u>	2A_
Total Ammonia mg/l	Mg - Magnesium	mg/l	, method #	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Total)	Mn - Manganese	mg/l	, method #	
TKN as Nmg/l	Ni - Nickel	mg/l	, method #	
For Remediation Systems Only (Attach Lab Reports):		ng/L Effluent Total VOCs:	mg/L VOC Remo	The state of the s
I certify that, to the best of my knowledge and belief, the information submit DWQ-certified laboratory. I am aware that there are significant penalties for				oy a
		1911/18	2/13	10
Garland Hilliard - Director, Environmental Remedia	RUOTI Signatur	of Permittee (or Authorized Agent)	(Data)	11/

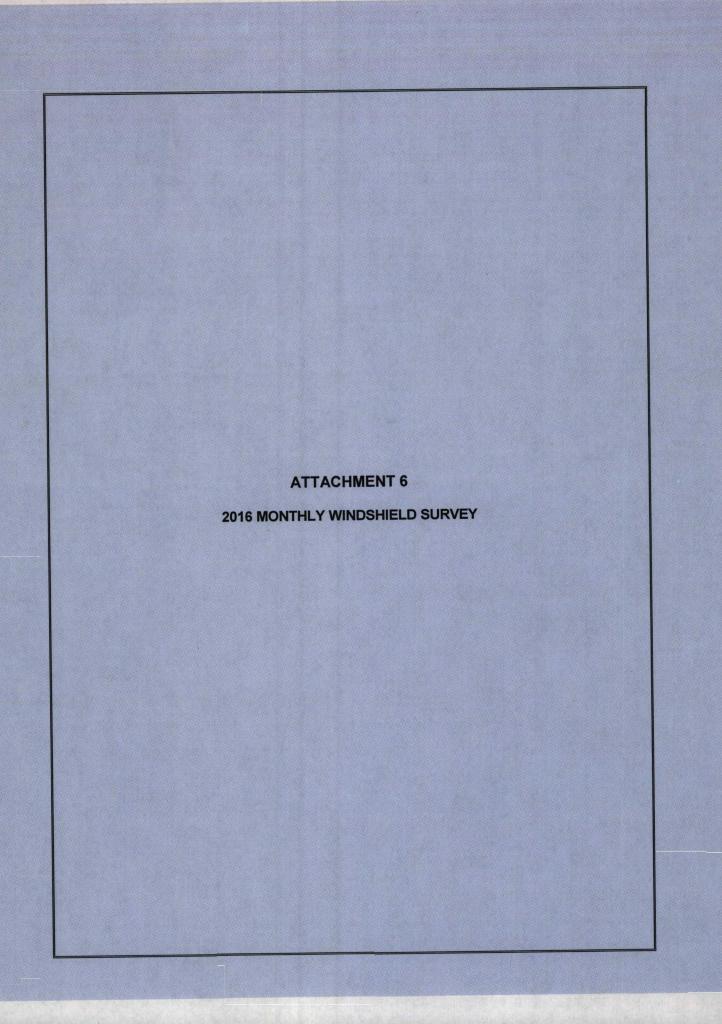
Permittee (or Authorized Agent) Name and Title - Please print or ty

GROUNDWATER QUALITY MONITO COMPLIANCE REPORT FORM	RING:	*	Mail original and 1 copy to:	DEPARTMENT OF ENVIRONMENT DIVISION OF WATER QUALITY-IN 1617 MAIL SERVICE CENTER RA	T & NATURAL RESOURCES FORMATION PROCESSING UNIT LEIGH, NC 27699-1617 Phone: (91	9) 733-3221
FACILITY INFORMATION	Please Print	t Clearly or Type			Expiration Date: 05/31/	
Facility Name: Geigy Chemical Corpora	ation Site			Non-Discharge WQ000994		
Permit Name (if different):				NPDES	Other	
Facility Address: Domino Drive				TYPE OF PERMITTED OPE	RATION BEING MONITORED	
Aberdeen (Street)	NC 283	15 County Moore		☐ Lagoon	Remediation: Infiltratio	
	tate) (Zip)			☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: _423.336.	4479	☐ Rotary Distributor	☐ Land Application of Slu	
Well Location/Site Name:			pled:	☐ Water Source Heat Pu	ımp Other:	
			(from Permit)			
SAMPLING INFORMATION WELL ID NUMBER (from Permit): PZ-2		Date sample collected:	10/5/16	FIELD ANALYSES:		If WELL WAS
00.40		Well Diameter:		pH 4.50 units	Temp18.81_°C	DRY at
Well Depth: 36.18 ft. Depth to Water Level: 5.15 ft. below mea	acuring point	Screened Interval:		- Control of the Cont		time of
Measuring Point isft. above land		Relative M.P. Elevation:		Odor None		sampling
Volume of water pumped/bailed before sampli		5.5 gallons	<u> </u>	Appearance Clear		check here:
Samples for metals were collected unfiltered			YES DNO	Appearance Olean		
LABORATORY INFORMATION	120	NO and field addition.	ilo Lino			
Date sample analyzed: 10/12/16		Laboratory Name: Test	America		Certification No. 269	
PARAMETERS NOTE: Values should refle				5	777.0	
COD	mg/l	Nitrite (NO ₂) as N	mg/l		mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total (Note: Use MPN method for highly turbid samples)	/100ml	Phosphorus: Total as P	The second secon			
		Orthophosphate			unds and Concentration Units):	
Dissolved Solids: Total		Al - Aluminum		TCL Pesticides - R	results attached	
pH (when analyzed)			mg/l			
тос		Ca - Calcium				
Chloride		Cd - Cadmium				
Arsenic		Chromium: Total				
Grease and Oils			mg/l	ORGANICS: (by GC, G		
Phenol			mg/l		thod #. ATTACH LAB REPOR	Т.)
Sulfate	mg/l	Hg - Mercury				Α.
Specific Conductance		K - Potassium			, method # <u>8081B / 8082</u>	
Total Ammonia (Ammonia Nitrogen; NH₃as N; Ammonia Nitrogen, Tot	mg/l	Mg - Magnesium			, method #	
		Mn - Manganese			, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	_
For Remediation Systems Only (Attach Lab	Reports):	Influent Total VOCs:	mg/L Efflue	ent Total VOCs:	mg/L VOC Remova	al%
I certify that, to the best of my knowledge and belief, the						а
DWQ-certified laboratory. I am aware that there are sign	ificant penalties fo	or submitting false information, including the	possibility of fines and in	norisonment for knowing violations.		
Garland Hilliard - Director, Environmer	ntal Remedia	ation	1/1	AMU	2/13	3/12
Permittee (or Authorized Agent) Name and Title - Pleas			Signature of Permittee (r Authorized Agent)	(Date)	

GROUNDWATER QUALITY MON	ITORING:		nd 1 copy to:		FORMATION PROCESSING UNIT	
COMPLIANCE REPORT FORM	Please Print C		161		LEIGH, NC 27699-1617 Phone: (91	
FACILITY INFORMATION		learly or Type		RMIT Number:		
Facility Name: Geigy Chemical Cor	poration Site				19 UIC	
Permit Name (if different):				PDES	Other	
Facility Address: Domino Drive			TY	PE OF PERMITTED OPE	RATION BEING MONITORED	ļ.
Aberdeen (Street)	NC 28315 (State) (Zip)	County Moore		☐ Lagoon	Remediation: Infiltratio	
				☐ Spray Field	Remediation: Ground	
Contact Person: Garland Hilliard		Telephone#: 423.336.447	9	☐ Rotary Distributor	☐ Land Application of Slu	
Well Location/Site Name:	4	No. of wells to be sampled	(from Permit)	☐ Water Source Heat Pu	ump Other:	
SAMPLING INFORMATION			- 7			If WELL
WELL ID NUMBER (from Permit): PZ	2-3			FIELD ANALYSES:		WAS
Well Depth: 61.54 ft.		Well Diameter:2		pH <u>4.40</u> units	Temp16.90 °C	DRY at time of
Depth to Water Level: 35.69 ft. below	measuring point	Screened Interval: 51.5	oft. to 61.5 ft.	Spec. Cond.	20 μMhos	sampling,
Measuring Point isft. above	e land surface	Relative M.P. Elevation:3	81.02 ft.	Odor None		check
Volume of water pumped/bailed before sa	, , ,	4 gallons		Appearance Clea	r	here:
Samples for metals were collected unfilt	ered: YES	□ NO and field acidified: □ YES	□NO			
LABORATORY INFORMATION		Toot Am	orico		260	
Date sample analyzed: 10/12/16 PARAMETERS NOTE: Values should	roflect disselved a	Laboratory Name:Test An	ierica		Pertification No. 203	
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N		Zn - Zinc	mg/l	
Coliform: MF Total		Phosphorus: Total as P				
(Note: Use MPN method for highly turbid sample		Orthophosphate		Other (Specify Compo	unds and Concentration Units):	,
Dissalved Solida: Total	ma/l	AI - Aluminum		TCL Pesticides - F		'
Dissolved Solids: Total				102100000001	Count attached	
pH (when analyzed)		Ba - Barium				_
TOC		Ca - Calcium				
Chloride		Cd - Cadmium		(_
Arsenic	mg/l	Chromium: Total		ORGANICS: (by GC,	CC/MS HDIC)	
Grease and Oils		Cu - Copper		Marie and Marie and American	thod #. ATTACH LAB REPOR	Τ.
Phenol		Fe - Iron			Yes (1) No (0)	1.)
Sulfate		Hg - Mercury			, method # <u>8081B / 8082</u>	Δ
Specific Conductance		K - Potassium				
Total Ammonia (Ammonia Nitrogen; NH3 as N; Ammonia Nitroge	mg/l	Mg - Magnesium			, method #	
		Mn - Manganese			, method #	
TKN as N		Ni - Nickel				
For Remediation Systems Only (Attach				Total VOCs:		
I certify that, to the best of my knowledge and belie DWQ-certified laboratory. I am aware that there ar					using approved methods of analysis by	a
		\cap	198	11//	21	-1-
Garland Hilliard - Director, Environ			ture of Permittee (or Al	me /	2/13	5/17
Permittee (or Authorized Agent) Name and Title -	Please print or type	Signa	ture of Permittee (or Ai	utnorized Agent)	(Date)	

GROUNDWATER QUALITY MON	ITORING:		d 1 copy to: DIV		IT & NATURAL RESOURCES NFORMATION PROCESSING UNIT ALEIGH, NC 27699-1617 Phone: (91	9) 733-3221
FACILITY INFORMATION	Please Print Cle	early or Type		RMIT Number:	Expiration Date: 05/31/	
Facility Name: Geigy Chemical Cor	poration Site				49 UIC	
Permit Name (if different):				DES	Other	
Facility Address: Domino Drive			TY	PE OF PERMITTED OP	ERATION BEING MONITORED	
Aberdeen (Street)	NC 28315	County Moore		Lagoon	☐ Remediation: Infiltration	
(City)	(State) (Zip)			Spray Field	Remediation: Ground	dwater
Contact Person: Garland Hilliard		Telephone#: 423.336.4479		Rotary Distributor	☐ Land Application of Slu	udge
Well Location/Site Name:					ump Other:	The second secon
			(from Permit)			
SAMPLING INFORMATION	, E	_ Date sample collected: 10/19	9/16	FIELD ANALYSES:		If WELL WAS
WELL ID NUMBER (from Permit): P2 Well Depth: 30.12 ft.	0	Well Diameter: 2		pH 3.19 units	Temp. 21.60 °C	DRY at
	. managerina maint	Screened Interval: 20.1		Spec. Cond.	66 μMhos	time of
Depth to Water Level: 4.62 ft. below		Relative M.P. Elevation:33		Odor None	00	sampling,
Measuring Point isft. above Volume of water pumped/bailed before sa		gallons	0.00 IL.	Appearance Clea	ar	check here:
Samples for metals were collected unfilt		_gallons NO and field acidified: ☐ YES	ΠNO	Appearance	AI .	11010.
LABORATORY INFORMATION	ereu.	NO and held acidined.				
Date sample analyzed: 10/27/16		Laboratory Name: Test Ame	erica		Certification No. 269	
PARAMETERS NOTE: Values should	reflect dissolved an					
COD	mg/l	Nitrite (NO ₂) as N	mg/l	Pb - Lead Zn - Zinc	mg/l	
Coliform: MF Fecal	/100ml	Nitrate (NO ₃) as N	mg/l	Zn - Zinc	mg/l	
Coliform: MF Total	/100ml	Phosphorus: Total as P				
(Note: Use MPN method for highly turbid sampl	es)	Orthophosphate	The second state of the se		ounds and Concentration Units):	
Dissolved Solids: Total		AI - Aluminum		TCL Pesticides - I	Results attached	
pH (when analyzed)	units	Ba - Barium	mg/l			<u></u>
тос	mg/l	Ca - Calcium	mg/l			- 12.00
Chloride	mg/l	Cd - Cadmium	mg/l			
Arsenic		Chromium: Total	mg/l			
Grease and Oils	mg/l	Cu - Copper	mg/l	ORGANICS: (by GC,	GC/MS, HPLC)	
Phenol		Fe - Iron			ethod #. ATTACH LAB REPOR	T.)
Sulfate	mg/l	Hg - Mercury	mg/l		☐ Yes (1) ☐ No (0)	
Specific Conductance	μ M hos	K - Potassium	mg/l		, method # <u>8081B / 8082</u>	
Total Ammonia	mg/l	Mg - Magnesium			, method #	
(Ammonia Nitrogen; NH₃as N; Ammonia Nitroge		Mn - Manganese	mg/l		, method #	
TKN as N	mg/l	Ni - Nickel	mg/l		, method #	
For Remediation Systems Only (Attach			mg/L Effluent		mg/L VOC Remov	
I certify that, to the best of my knowledge and belie DWQ-certified laboratory. I am aware that there ar						ra
		_	11/1		,	1,0
Garland Hilliard - Director, Environ			pre of Permittee for Au	W.	2/13 (Date)	11/
Permittee (or Authorized Agent) Name and Title -	Please print or type	Signate	are of Permittee For AL	monzed Ademi)	(Date)	

Permittee (or Authorized Agent) Name and Title - Please print or type



Reconnaissance for New Construction within Area of Plume

Project: Geigy Superfund Site Date: January to December 2016

Location: Aberdeen, NC Data Collected by: CWH
Project No.: 11.990010.00

Date	Address	Property Description
01/27/16	 	No observed change
02/18/16		No observed change
03/30/16		No observed change
04/28/16		No observed change
05/17/16		No observed change
06/14/16		No observed change
06/24/16	7	No observed change
07/12/16		No observed change
08/03/16	T	No observed change
09/13/16		No observed change
10/04/16	Campbell	New homes on Campbell between High and Bethesda
11/17/16		No observed change
12/21/16	Ţ	No observed change
	T	
	 	
	 	
· · · · · · · · · · · · · · · · · · ·		